CATALOGUE NUMBER FIFTEEN

ELECTRIC LIGHT SUPPLIES.

FRANK H. STEWART ELECTRIC COMPANY

35 NORTH SEVENTH STREET

PHILADELPHIA

PA.

CLASSICS
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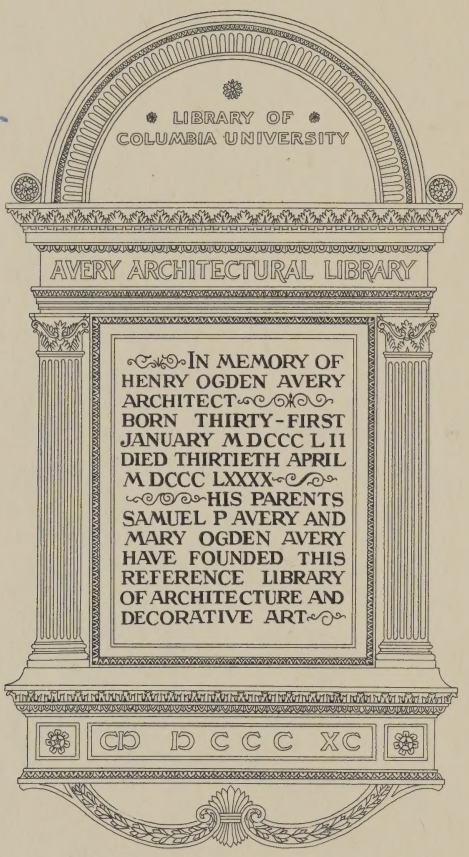
1900



LIGHTING; ELECTRIC LIGHTING 190-?

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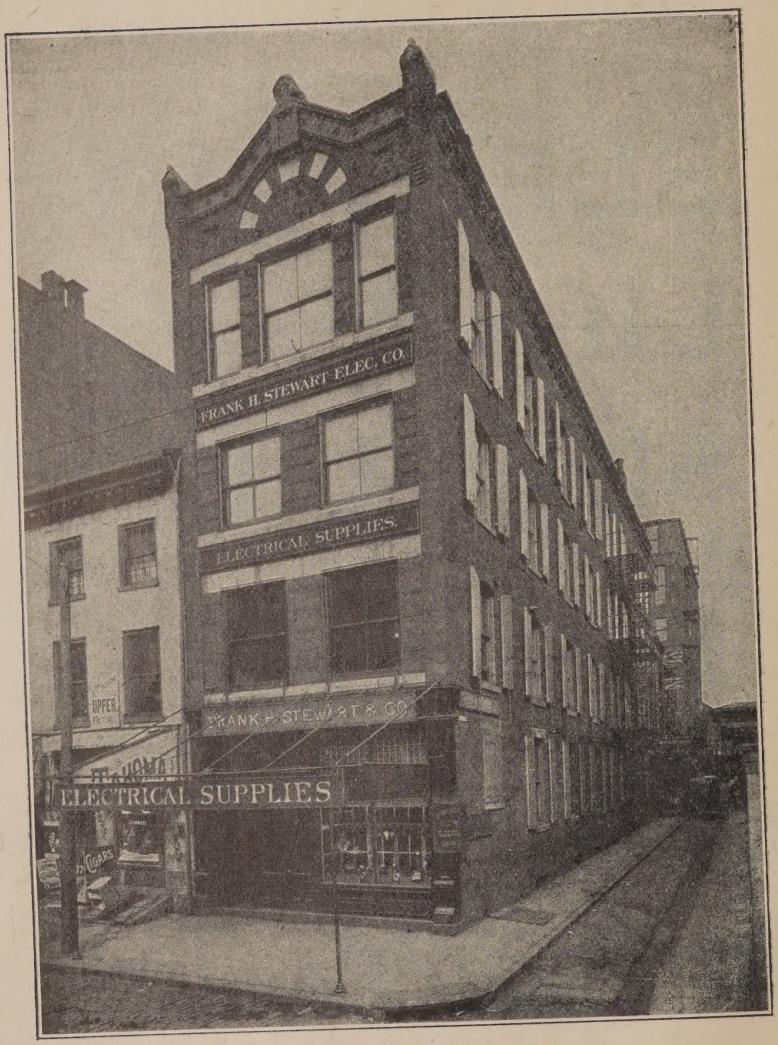


OFFICES AND SALESROOM

35 NORTH SEVENTH STREET

PHILADELPHIA

PA.

Introduction.

IN presenting this catalogue to our customers, we do so with a feeling of pride that it lists everything that is standard in the electrical field, and material that is recognized as such by the trade. While it may not cover every article of electrical manufacture, yet it is as complete a listing as is consistent with daily demands. Material not found in this book can undoubtedly be obtained from us, and it is our purpose to send to our patrons from time to time, circulars and bulletins showing new product as they are placed upon the market. Code Words and List Numbers have been provided for each article, and we would request our patrons to make use of them when favoring us with their orders, and this will assist to the prompt identification and quick shipment of orders. Directions as to proper routing should be given; otherwise we will use our best judgment. We quote prices, giving the lowest market quotations upon all standard goods, but do not hold ourselves responsible for changes in prices without notice.

Under no circumstances are returned goods accepted by us except under our directions, and all claims should be presented within five days for our consideration. We make no allowances for breakage after delivery of goods to carriers, and all such claims should be presented to the transportation company handling the package. Goods sent by mail are forwarded at the purchaser's risk.

Frank H. Stewart Electric Company.

TELEGRAPH CODE.

Telegraph inquiries received by us in code will be replied to in the same manner, not otherwise.

QUOTATIONS.

Vaba	At what price can you furnish?
Vabab	At what price and how soon can you furnish?
Vabad	Wire quotation on
Vabaf	Quote by return mail on
Vabag	Quote us F. O. B. ..... on

ANSWERS ON QUOTATIONS.

Vabe	We quote for immediate acceptance
Vabed	Quotation is F. O. B.
Vabef	Not understood; send fuller particulars.

ORDERS.

Vabi	Ship immediately by express
Vabib	Ship immediately by express C. O. D.
Vabid	Ship immediately by freight
Vabif	Ship immediately by freight with sight draft attached to a bill of lading
Vabig	Send immediately by mail
Vabih	Duplicate our order
Vabik	Enter our order per your quotation of
Vabil	Enter our order for
Vabim	Enter order, shipping directions to follow, for
Vabip	Enter order if you can ship within
Vabir	Cancel order for

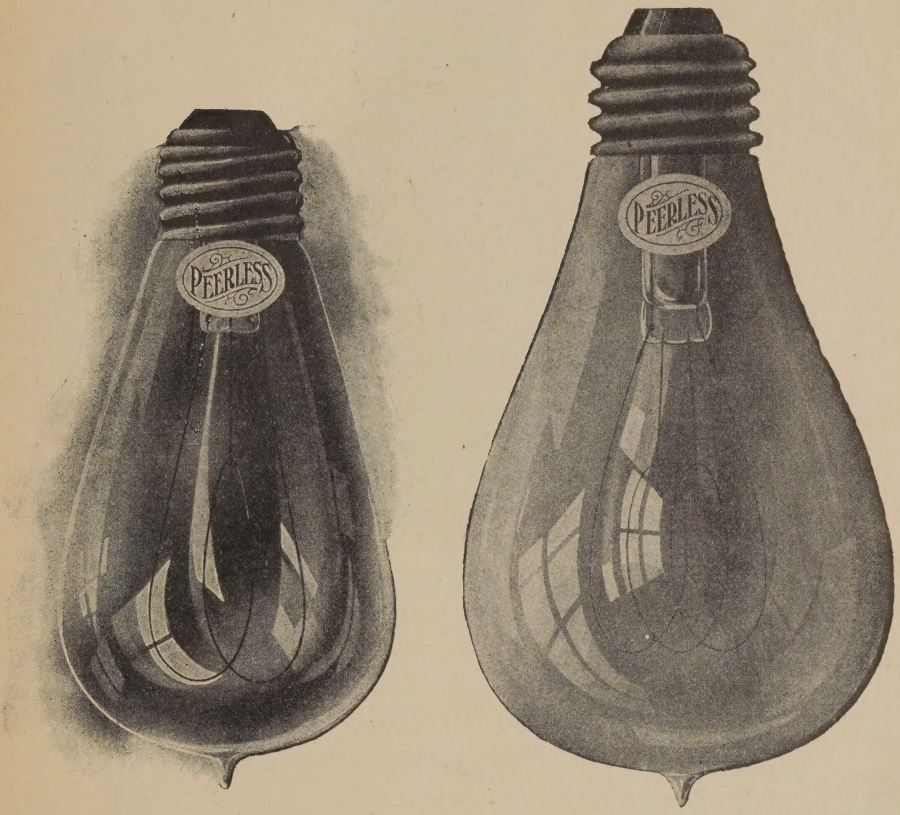
ANSWERS ON ORDERS.

Vabo	Cannot accept order at price named for
Vabob	Too late to cancel order for
Vabod	We accept your order for shipment in
Vabof	We have in stock for immediate shipment
Vabog	If ordered at once we can ship
Vaboh	We cannot change order now.
Vabok	Referring to your order for

REGARDING SHIPMENTS.

Vabu	How soon can you ship?
Vabub	Wire us if you cannot ship immediately our order
Vabuc	Have you in stock for immediate shipment?
Vabud	If ordered immediately, how soon can you ship?
Vabuf	Have you shipped our order?
Vabug	What have you shipped on our order?
Vabuh	When will you ship our order?
Vabuk	By what route was our order shipped?
Vabul	Hold shipment of our order
Vabum	Ship what you can and balance soon as possible on our order
Vabun	Ship the whole order in one lot.
Vabup	Trace immediately our order
Vabur	We have shipped all of your order except
Vabus	We have shipped part of your order and will send balance in
Vabut	Your order was shipped by
Vabuw	We have started tracer on your order

PEERLESS INCANDESCENT LAMPS.



REGULAR TYPES—STANDARD LAMPS.

EDISON BASE.

45 to 130 Volts.

Code Word.	List No.	Candle Power.	Std. Pkg.	List Price, Each.
Zadanur	27559	2 to 24	200	$0.20
Zadanus	27560	32 and 50	100	.30
Zadanut	27561	100	20	1.00

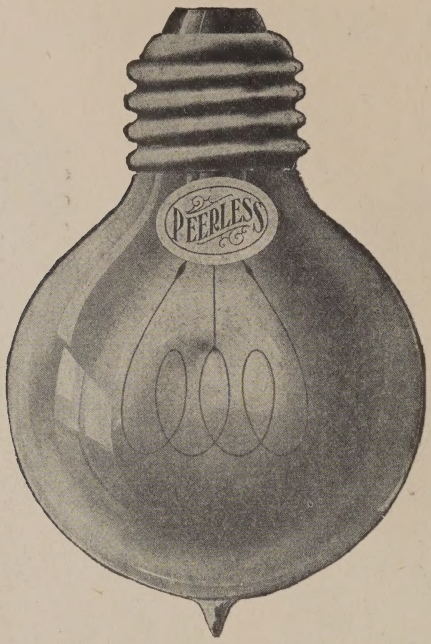
200 to 250 Volts.

Zadanuv	27562	8-10-16	200	.22
Zadanuw	27563	20-24	200	.30
Zadanux	27564	32-50	100	.40
Zadanuy	27565	100	20	1.50

Peerless Lamps listed on this page are sold at Class "B" prices, and the discounts are greater than on Class "A" Lamps.

Write for particulars.

PEERLESS INCANDESCENT LAMPS.



ROUND BULB AND TUBULAR TYPES.

EDISON BASE. 45 to 130 Volts.

Code Word.	List No.	Description.	Candle Power.	Std. Pkg.	List Price, Each.
Zadanuf	27551	Round bulb, 2 to 2½ in.	2 to 16	200	$0.25
Zadanug	27552	Round bulb, 3⅛ in.	16	200	.30
Zadanuh	27553	Round bulb, 3⅛ in.	32	100	.40
Zadanuk	27554	Round bulb, 3¾ in.	32	100	.45
Zadanul	27555	Tubular	8-10-16	200	.30
		200 to 250 Volts.			
Zadanum	27556	Round bulb, 2½ in.	8-10-16	200	.30
Zadanun	27557	Round bulb, 3¾ in.	32	100	.55
Zadanup	27558	Tubular	16	200	.45

EXTRA CHARGE FOR FROSTED LAMPS.

Sixteen candle power and under, 2½ cents each; thirty-two candle power, 3 cents; fifty candle power, 3½ cents; seventy-five candle power, 4 cents; one hundred candle power and over, 5 cents.

EXTRA CHARGE FOR COLORED LAMPS.

For colored lamps the following additional charges per lamp are to be made to the list price of plain lamps:

For superficial coloring 25 per cent of list price, subject to discount for both Class A and B lamps.

For natural glass, green and blue, 2 to 32 candle power. .10
For natural glass, purple, 2 to 32 candle power. .15
For natural glass, ruby and opal, 2 to 32 candle power. .20
For natural glass, amber and canary, 2 to 32 candle power. .25

Natural colored lamps are subject to the discount for Class A lamps only, making the price of such lamps the same for Class A and Class B.

EXTRA CHARGE FOR BASES.

The prices on this sheet cover Edison base lamps only; for lamps fitted with other bases the following additional charges per lamp are to be added to list and subject to discount for Class A and B lamps:

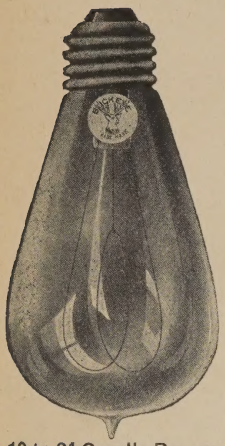
Westinghouse and Combination Edison-Westinghouse. .02½
Thomson-Houston .02½
Ediswan .03
United States, Brush-Swan & Schaeffer. .05

EXTRA CHARGE FOR ETCHING LETTERS, ETC., ON LAMPS.

Extra charge for etching letters or designs on lamps: ½ cent per lamp to customers purchasing under 10000 a year; ¼ cent per lamp to customers purchasing over 10000 a year. These charges are net and subject to no discount.

BUCKEYE INCANDESCENT LAMPS.

REGULAR LAMPS.



10 to 24 Candle Power. Regular Lamp.

45 TO 130 VOLTS, EDISON BASE.

Code Word.	List No.	Candle Power.	Std. Pkg.
Zabusin	12900	4	250
Zabusip	12901	5	250
Zabusir	12902	6	250
Zabusis	12903	8	250
Zabusit	12904	10	250
Zabusiv	12905	12	250
Zabusiw	12906	16	250
Zabusix	12907	20 (3.1 and 3.6 W. C. P.)	250
Zabusiy	12908	20 (4 W. C. P.)	125
Zabusiz	12909	24 (3.1 W. C. P.)	250
Zabuso	12910	24 (3.6 and 4 W. C. P.)	125
Zabusob	12911	32	125
Zabusoc	12912	50	125
Zabusod	12913	100	20
Zabusof	12914	150	20

20 TO 44, AND 200 TO 250 VOLTS, EDISON BASE.

Zabusog	13012	8	250
Zabusoh	13013	10	250
Zabusok	13014	16	250
Zabusol	13015	20	250
Zabusom	13016	24	250
Zabuson	13017	32	125
Zabusop	13018	50	125

REGULAR STREET RAILWAY, 45 TO 130 VOLTS, EDISON BASE.

Zabusor	13019	10-16	25

Owing to the frequent changes in list prices of Incandescent Lamps we will furnish upon application the price list operative at the time any request for it is received.

EXTRA CHARGES APPLYING TO BUCKEYE INCANDESCENT LAMPS.

Extra Charge for Bases.

Zabutaz	13065	T. H. Westinghouse and Combination	.02½
Zabute	13066	Ediswan	.03
Zabuteb	13067	U. S. Brush-Swan and Schaefer	.05

Extra for Frosted Lamps.

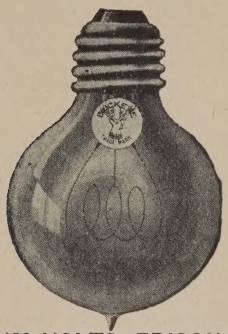
Zabutec	13068	2 to 25 C. P., per lamp	.02½
Zabuted	13069	32 C P., per lamp	.03
Zabutef	13070	50 C. P., per lamp	.03½
Zabuteg	13071	Extra for dip coloring	20%

Extra for Natural Colored Lamps.

Zabuteh	13072	Green and Blue, per lamp	.10
Zabutek	13073	Purple, per lamp	.15
Zabutel	13074	Ruby and Opal, per lamp	.20
Zabutem	13075	Amber and Canary, per lamp	.25

BUCKEYE INCANDESCENT LAMPS.

ROUND BULB LAMPS.



45 TO 130 VOLTS, EDISON BASE.

Code Word.	List No.	Candle Power.	Std. Pkg.
Zabusov	13022	2-8	250
Zabusow	13023	10	250
Zabusox	13024	16	250
Zabusoy	13025	32 (3⅛ in.)	100
Zabusoz	13026	50 (3¾ in.)	100

20 TO 44, AND 200 TO 250 VOLTS, EDISON BASE.

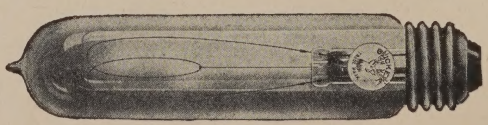
Zabusu	13027	8	250
Zabusub	13028	10	250
Zabusuc	13029	16	250
Zabusud	13030	32 (3⅛ in.)	100
Zabusuf	13031	50 (3¾ in.)	100

SIGN LAMPS.

45 TO 130 VOLTS, EDISON BASE.

Zabusuv	13041	2	250
Zabusuw	13042	3	250
Zabusux	13043	4	250
Zabusuy	13044	5	250

TUBULAR LAMPS.



45 TO 130 VOLTS, EDISON BASE.

Zabutad	13049	2 (3½ in. long)	250
Zabutaf	13050	4 (3½ in. long)	250
Zabutag	13051	8 (over 3½ in. long)	250
Zabutah	13052	10 (over 3½ in. long)	250
Zabutak	13053	16 (over 3½ in. long)	250
Zabutal	13054	32	100

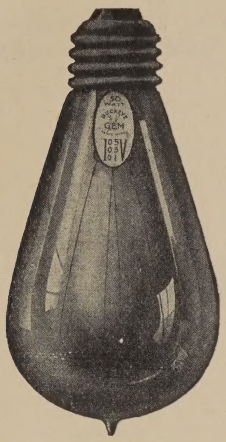
20 TO 44, AND 200 TO 250 VOLTS, EDISON BASE.

Zabutam	13055	16	250
Zabutan	13056	32	100

PRICE LIST ON APPLICATION.

BUCKEYE GEM LAMPS.

METALLIZED, 50 WATTS.



100-130 Volts. 20 Candle Power at 2.5 W. P. C.

The Gem Metallized 50 Watt Lamp closely resembles the ordinary carbon double filament lamp. The filament is a carbon filament which has been so changed by subjecting it to the intense heat of an electric furnace that it more nearly resembles a metal in the behavior of its electrical resistance at different temperatures, hence the term "Metallized Filament."

The Gem 50 Watt Lamp changes less rapidly in candle power with a change in voltage than does the ordinary carbon filament lamp. While the latter changes about one candle for a given change in voltage the Gem lamp changes only about seven-tenths of a candle for the same change in voltage. This is because the filament increases in resistance with an increase in voltage and decreases in resistance with a decrease in voltage, just contrary to what happens in the ordinary carbon lamp.

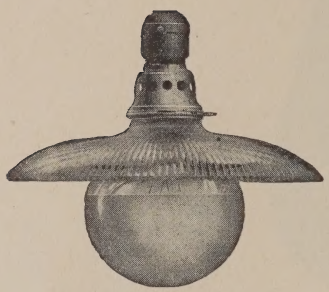
The highest efficiency of the Gem 50 Watt Lamp is 2.5 watts per candle, while the highest efficiency attained by the ordinary carbon lamp is but 3.1 watts per candle. This means a saving of 20 per cent in the consumption of current for the same illumination and life.

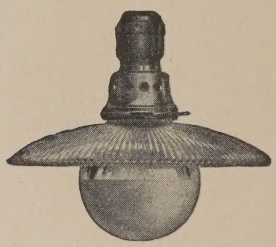
The Gem 50 Watt Lamp may be operated equally well on direct or alternating current circuits. At present the lamps are made to operate on voltages from 100 to 130 as most commercial circuits are between these limits.

Prices and further information upon request.

BUCKEYE INCANDESCENT LAMPS.

GEM FOCAL LAMPS.





These Lamps require no auxiliary devices of any kind, fit sockets as ordinary lamps and light instantly when the current is turned on. Although they are usually placed in a vertical position with reflectors, so as to produce definite lighting values on floors or tables, the Gem lamps can be used at any angle, and behave equally well on direct current or on alternating current of any periodicity.

These Lamps in addition to their low first cost, which is far lower than the cost of other high efficiency lamps giving the same amount of illumination, have so low a cost of operation that they are cheaper to operate when the cost of renewals is considered than the old carbon lamps or other new high efficiency lamps, excepting only extremest conditions of cheap power.

The reflectors, shade-holders, etc., do not give out. Only the bare lamp needs to be replaced, but no oftener than the lower efficiency lamps. The cost of renewals for the Gem units varies from ½ to ¾ cent per kilowatt hour, which compares favorably with the 3.1 w. p. c. carbon filament lamp.

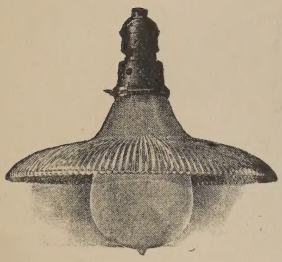
While the carbon lamp operates at its highest efficiency at 3.1 w. p. c., the Gem lamps attain an efficiency of 2.5 w. p. c. This is a saving of 20 per cent in the current consumed while the illumination and life is unchanged. When concentrating reflectors are used, so as to turn the light rays into certain fixed directions, usually downward, the efficency for lighting values directly below the lamp often reaches 1 w. p. c.

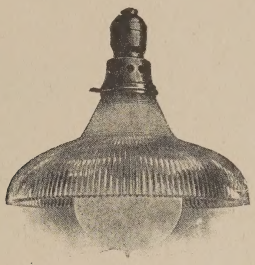
The Gem Focal Lamps are spherical in shape and are manufactured in two sizes: No. 1, is a 50 watts lamp, 3¾ inches in diameter, and 20 C. P. No. 2 is a 100 watts lamp, 5 inches in diameter, and 40 C. P.

Prices and further information upon application.

BUCKEYE INCANDESCENT LAMPS.

GEM HIGH EFFICIENCY LAMPS.





For a long time in the structure of Lampdom—so to speak—the little incandescent lamp was down in the cellar, and the arc was up on the roof, and there was no elevator in between, nor intermediate steps. You had the choice to illuminate your store, residence, theatre, or other buildings with incandescent lamps ranging 16 to 32 C. P., or with an arc lamp. The demand gradually rose for a lighting unit of greater candle power than the commonplace incandescent lamp, and of a higher efficiency. This found its solution in the present Gem Lamps, which are made in different sizes, so as to yield 40, 60, 80 and 100 candle powers, the efficiency being 2½ watts per candle.

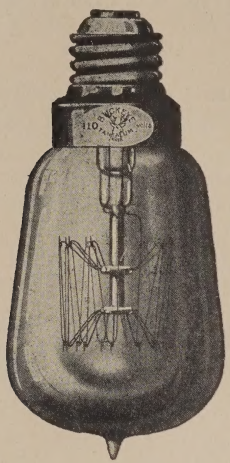
They look like the incandescent lamps you have been accustomed to see, only larger, and the secret of the lamp's efficiency is a special filament, which is known as "Metalized," and is prepared by treating a carbon filament in an electric furnace of tremendous temperature. This makes possible a high efficiency, two and one-half watts per candle.

Think of it!

Where you have need for a larger unit than an ordinary lamp and don't want to go to the expense of purchasing an arc lamp, or other special high priced devices, these Gem units are just the thing for you. After putting the lamp in the socket that's all there is to it. No further attention is needed; they light up instantly; there's nothing to replace; no maintenance expense, and the lamp is reasonably priced, so you can afford to throw it away after it has yielded a fair life.

PRICES AND FURTHER INFORMATION UPON REQUEST.

BUCKEYE TANTALUM LAMPS.



100-130 Volts. 22 Candle Power. 44 Watts.

Tantalum Lamps are representative of the most modern development in the field of electric lighting, and will accomplish a very material saving to the user of electric light.

The ordinary carbon filament lamp, rated at 16 C. P., consumes from 50 to 60 watts. The Tantalum Lamp, giving 22 C. P., consumes approximately 44 watts; in other words, it will deliver about 35 per cent. more light while consuming from 12 to 25 per cent less current. This saving in current alone, without regard to the very material increase in illumination, will offset the additional first cost of the Tantalum lamp.

Tantalum Lamps when operated on direct current, either in multiple or in series, will have a useful life of approximately 600 hours. By useful life is meant the number of hours during which the lamp will burn before reaching 80 per cent of its initial C. P. The full life of the lamp when operated as above will be 800 to 1000 hours. At present these lamps are not recommended for use on alternating current circuits, on account of shorter life.

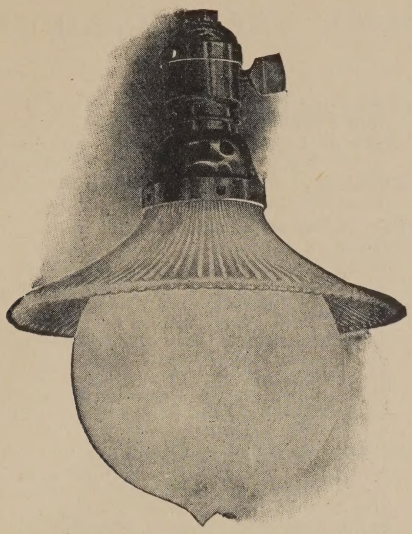
Tantalum Lamps give a bright white light, and when frosted the light is distributed very uniformly in all directions.

No special socket or fittings are necessary in connection with Tantalum Lamps, as they will fit regular Edison sockets and are approximately the same size and shape as the ordinary carbon filament lamps.

Tantalum Lamps are furnished at present in one C. P. only, viz.: 22 C. P., and in voltages 100 to 130.

Any further information, including prices, etc., will be cheerfully furnished upon application.

MONARCH LAMPS.



LAMPS FOR RENEWAL PURPOSES FITTED WITH EDISON BASE, 90 TO 130 VOLTS.

Code Word.	List No.	Mfr. No.	Description.	List Price Broken Package Quantity.	List Price Standard Package Quantity.
Zegat	21422	1, 25	C. P. Lamp in tipless bulb 3¾ in. in diameter..	$ .48	$ .40
Zegav	21423	1, 25	C. P. Lamp in bulb with tip 3¾ in. in diameter..	.45	.37
Zegaw	21424	2, 50	C. P. Lamp in tipless bulb 5 in. in diameter.....	.70	.60
Zegax	21425	2, 50	C. P. Lamp in bulb with tip 5 in. in diameter....	.65	.55

These prices cover frosted bulbs, which are regularly supplied unless otherwise ordered. —Clear bulbs will be supplied at the same prices.

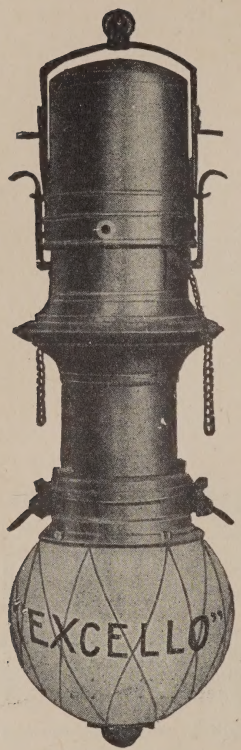
STANDARD PACKAGE QUANTITY.

A standard package quantity is 24 lamps of one type, one efficiency, one voltage and one base. No assorted order of 24 lamps will be considered as a standard package. The fittings and shades may be of one or more styles.

METAL REFLECTOR FITTINGS AND PARTS FOR NO. 1 MONARCH LAMP.

			Detail of Parts.	List Price Each, of Parts.	Mfr. No. of Assembly of Parts Composing a Fitting.	List Price of Assembly of Parts Composing a Fitting.	List Price Standard Package Quantity of Complete Lamp and Fitting.
Zegaz	21426	27547	Collar	$ .30	33740	.75	.90
Zege	21427	29773	Reflector	.45	33740	.75	.90
Zegeb	21428	27547	Collar	.30	27862	1.50	1.65
Zeged	21429	29773	Reflector	.45	27862	1.50	1.65
Zegef	21430	9392	Edison Keyless Socket	—	27862	1.50	1.65
Zegeg	21431	27865	Extension Tube (6⅝ in. long, ⅛ in. brass tubing	.20	27862	1.50	1.65
Zegeh	21432	27866	Canopy	.30	27862	1.50	1.65
Zegek	21433	27867	Crowfoot	.10	27862	1.50	1.65
Zegel	21434		Extra length of extension tube, brass tube with gas pipe, per foot	.35	27862	1.50	1.65

"EXCELLO" FLAMING ARC LAMPS.



"Sunray" Lamp.

System: It is manufactured D. C. or A. C., and suitable for any current.

Color of Light: It gives the Sunray or Pearl White light by changing carbons.

Suitability: It is suitable for either indoor or outdoor lighting.

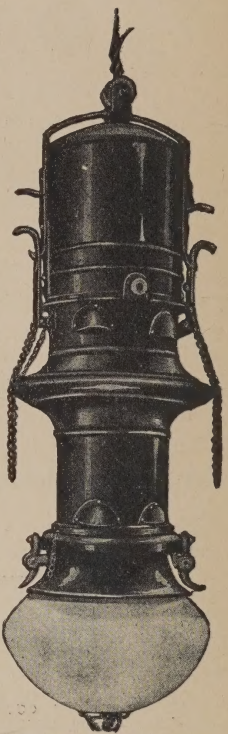
Candle Power: 1500 to 3000.

Economy: 1500 candle power lamps consume only 330 watts, i. e., as much as six 16 candle power incandescent lamps, giving 90 candle power
3000 candle power lamps consume only 550 watts, i. e., as much as nine 16 candle power incandescent lamps, giving 144 candle power. This great economy enables you to cut out your other illuminants and reduce your bill by 20 per cent to 80 per cent.

Advertising Power: The lamp is unexcelled for high class advertising. It gives your store an individual appearance, and distinguishes it from the others. It is the light that "creates crowds."

In addition to the standard 10 ampere lamps, we are now offering and shall carry in stock a 6 ampere lamp—size E (9 hours), direct current—an 8 ampere, size E, alternating current, either of which give with 40 per cent less current, fully 3 times as much light as an ordinary enclosed arc lamp, and may be installed without change in wiring further than connecting in series.

The standard 10 ampere lamps in either size E or F (10 hours or 17 hours, respectively), on A. C. or D. C., give fully 3000 candle power with a current consumption of 550 watts.



Pearl White Lamp.

Code Word.	List No.	Size.	Burning Hours.	Lamps, Each.	100 prs. Carbons.
Zadanal	27475	E 6 amp. D. C.	9	$55.00	14.50
Zadanam	27476	E 10 amp. D. C.	10	55.00	14.50
Zadanan	27477	E 8 amp. A. C.	10	55.00	14.50
Zadanap	27478	E 10 amp. A. C.	10	55.00	14.50
Zadanar	27479	F 10 amp. D. C.	17½	67.50	19.50
Zadanas	27480	F 10 amp. A. C.	17½	67.50	19.50

CANDLE POWER.

Amperes.	Excello Arc.	Ordinary Arc of Corresponding Current Consumption.
Six D. C.	1500 c. p. M. H.	250 c. p. M. H.
Eight A. C.	1500 c. p. M. H.	250 c. p. M. H.
Ten A. C.	2750 c. p. M. H.	450 c. p. M. H.
Ten D. C.	3000 c. p. M. H.	600 c. p. M. H.

Weight: Size E, 40 lbs. Size F, 51 lbs.

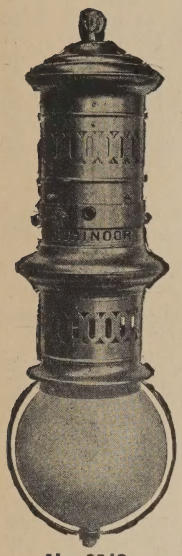
Length: Size E, 2 ft. 11 in. Size F, 3 ft. 9 in.

Works in Series: Two lamps on 100-120 volts. Four lamps on 200-240 volts.

Resistances for one lamp, 100-110 volts..... 6.75 extra.

Adjustment for 4 lamps in series, 200-240 volts, per lamp..... 3.00 extra.

"EXCELLO" ARC LAMPS.



No. 9312.

KOHINOOR ARC LAMP.

Amperes—Five.

Candle Power—700 c. p. M. H. 1000 c. p. maximum.

Burning Hours—Thirty.

Weight—8 pounds, approximately.

Length—21½ inches.

Connection—One lamp on 100-110 volts. Two lamps on 200-220 volts. Direct current.

Current Consumption—This is slightly less than an ordinary arc lamp. The light is a pure white color, without the frosty blue tint. The wandering of the arc peculiar to ordinary arcs is entirely expurgated.

Code Word.	List No.		List Price, Each.
Zademo	9311	Pattern 146, outdoor, black enameled..	$32.50
Zademob	9312	Pattern 147, indoor, polished brass.....	32.50
Zademoc	9313	Carbons, 100 pieces, i. e., 3000 hours...	4.50

List prices include resistance.

No. 9315.

MINIATURE ARC LAMPS.

Amperage—2 amperes standard.

Voltage—Singly on 100-110, direct current. Two on 200-220, direct current.

Resistances—For one lamp, one 100-110, supplied without extra charge. For two on 200-220, supplied without extra charge.

The lamps bnrn 18 hours on one trimming, which may be done by inexperienced persons.

The prices of the lamps are considerably lower than those of ordinary arc lamps. Our Substantial Standard Guarantee for one year for faultless working, material and design, includes this useful type of lamp.

		Pattern.		Length.	Weight.	
Zademod	9314	103	Outdoor, black enameled.....	16 in.	4¼ lbs.	16.50
Zademof	9315	100	Indoor, polished brass.....	16 in.	4¼ lbs.	17.50
Zademog	9316	97	Indoor, polished brass.....	16 in.	4¼ lbs.	18.50
Zademoh	9317		Carbons, for 100 pieces.....			2.50

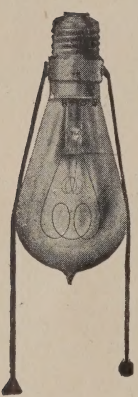
HYLO LAMPS.

TURN BULB HYLO.

Turn to Right for Bright, to Left for Dim Light.

Code Word.	List No.	C. P.	Base.	Volts.	List Price Each.
Zabebuh	49419	1—16	Ed. T.-H., S.-M.....	50 to 125	$ .60
Zabebuk	49420	½— 8	Ed. T.-H., S.-M.....	100 to 120	.60
Zabebul	49421	2—16	Ed. T.-H., S.-M.....	200 to 250	.65
Zabebum	49422	2—18	Ed. T.-H., S.-M.....	100 to 120	.60
Zabebun	49423	¼— 8	Ed. T.-H., S.-M.....	100 to 120	.60
Zabebup	49424	8—16	Ed. T.-H., S.-M.....	100 to 120	.60
Zabebur	49425	2—10	Ed. T.-H., S.-M.....	100 to 120	.60
Zabebus	49426	4—20	Edison Base only.....	100 to 120	.60
Zabebut	49427	4—20	Edison Base only.....	200 to 250	.65

Frosting—Five cents per lamp extra.
Coloring—Orange, Red, Green, Blue, Amber, 5 cents per lamp extra. Natural color will only be furnished to order in lots of 200 or more at 25 cents per lamp extra.



PULL STRING HYLO.

This lamp is provided with strings 13 inches long, which turns the lamp down, and then out. Key sockets and wall switches are not needed.

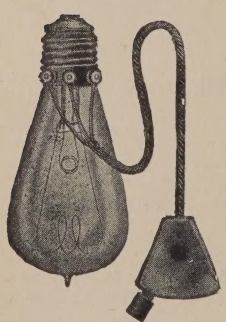
Zabebuv	49428	1—16—out	Edison only.....	50 to 125	.75
Zabebuw	49429	½— 8—out	Edison only.....	100 to 120	.75
Zabebux	49430	1—32—out	Edison only.....	100 to 120	.85
Zabebuz	49431	2—16—out	Edison only.....	200 to 250	.80
Zabeca	49432	¼— 8—out	Edison only.....	100 to 120	.75
Zabecab	49433	8—16—out	Edison only.....	100 to 120	.75

3—STEP PULL STRING.

Zabecad	49434	1— 2—16	Edison only.....	100 to 120	.80
Zabecaf	49435	½— 2— 8	Edison only.....	100 to 120	.80
Zabecag	49436	1— 4—16	Edison only.....	100 to 120	.80
Zabecah	49437	2—16—18-out	Edison only....	100 to 120	.80
Zabecak	49438	2— 8—10-out	Edison only....	100 to 120	.80
Zabecal	49439	4—16—20-out	Edison only....	100 to 120	.85
Zabecam	49440	4—16—20-out	Edison only....	200 to 250	.85
Zabecan	49441	2— 4—16	Edison only.....	200 to 250	.85

LONG DISTANCE HYLO.

For Ceiling Clusters, Porch Lanterns and other places where lamp is too far away for the Turn Bulb or the Pull String **HYLO**, the Long Distance Style should be used. A portable switch is attached by conducting cord and snap fasteners to the lamp. The cord may be as long as wanted, fifty feet if necessary. The switch turns the light out as well as down, thus obviating the necessity for key sockets and wall switches.



					Lamp Complete with 2 ft. cord.	Lamp only without switch or cord.
Zabecap	49442	1—16	out	Ed. S.-M.. 50 to 125	1.25	.60
Zabecar	49443	½— 8	out	Ed. S.-M..100 to 120	1.25	.60
Zabecas	49444	1—32	out	Ed. S.-M..100 to 120	1.35	.70
Zabecat	49445	2—16	out	Ed. S.-M..200 to 250	1.30	.60
Zabecav	49446	8—16	out	Ed. S.-M..100 to 120	1.25	.65

3—STEP LONG DISTANCE.

Zabecaw	49447	2—16—18-out	Ed. S.-M..100 to 120	1.25	.60
Zabecax	49448	2— 8—10-out	Ed. S.-M..100 to 120	1.25	.60
Zabecaz	49449	4—16—20-out	Ed. S.-M..100 to 120	1.25	.60
Zabece	49450	4—16—20-out	Ed. S.-M..200 to 250	1.30	.65

			Cord only without switch.
Zabeceb	49451	Long Distance Switch without cord..	.45	..
Zabecec	49452	2 foot Cord and Switch.....	.65	.20
Zabeced	49453	6 foot Cord and Switch.....	.85	.40
Zabecef	49454	10 foot Cord and Switch.....	1.05	.60

SKEDOODLE SOCKET PLUG.

Zabeceg	49455	16 c. p.	100v to 120v.....	.75
Zabeceh	49456	8 c. p.	100v to 120v.....	.75
Zabecek	49457	4 c. p.	100v to 120v.....	.75
Zabecel	49458	16 c. p.	200v to 250v.....	.75
Zabecem	49459	8 c. p.	200v to 250v.....	.75
Zabecen	49460	8 c. p.	50v to 60v.....	.75
Zabecep	49461	4 c. p.	50v to 60v.....	.75

DIM-A-LITE.

TURN DOWN SOCKET.

FOR ANY STANDARD INCANDESCENT LAMP 16 C. P. AND UNDER.

No. 7630.

1—Indestructible, therefore cheapest.

2—Quantity discount on request.

Code Word.	List No.		List Price, Each.
Zadevux	7630	Japanned	$0.75
Zadevuy	7631	Brush brass	1.00
Zadevuz	7632	Oxidized copper	1.00

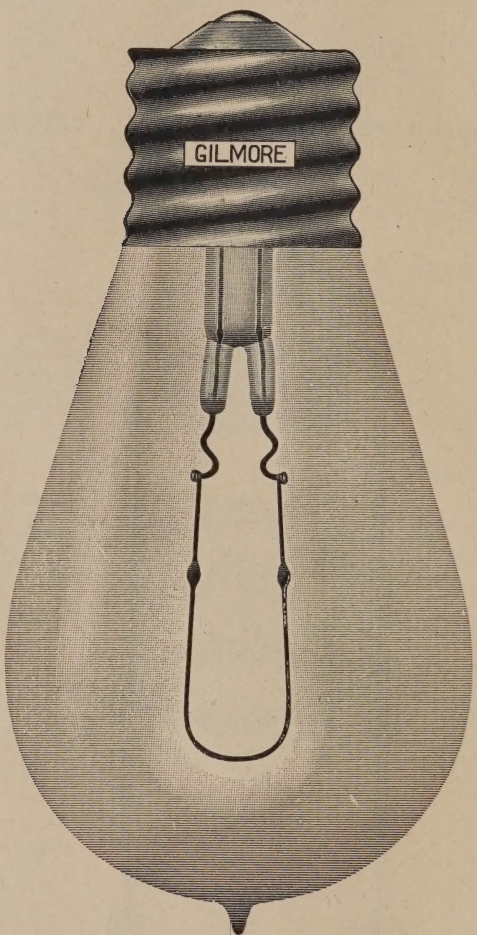
GILMORE STREET SERIES LAMPS.

Adapted for use in series on voltages of 1,000 and over. May be used in the same series with arc lamps. Cut shows large size Edison base, and these Lamps are also furnished in T.-H. cut-out. Bernstein or Heisler bases.

LONG LIFE.

MAINTENANCE OF CANDLE POWER.

LESS BLACKING OF BULB.



WIL BE FURNISHED IN STRAIGHT SIDE OR ROUND BULBS.

ROUND BULBS 15% EXTRA.

EXTRA FOR BASES:

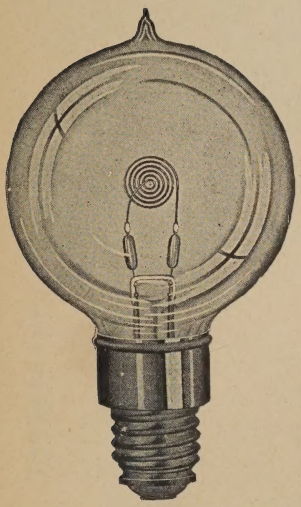
Small Cut-out..$0.04
Large Cut-out.. .08
Bernstein or Heisler ..... .10

STREET SERIES LAMPS. STRAIGHT SIDE BULBS.

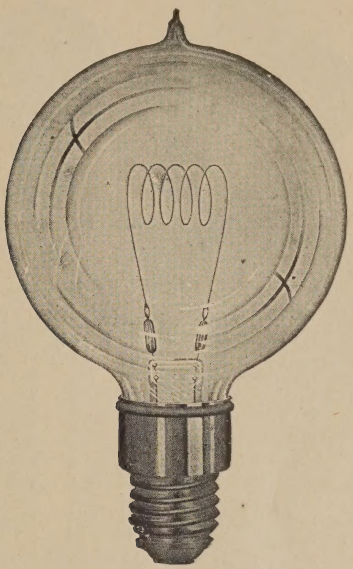
Fitted With Large Edison Base.

Code Word.	List No.	Candle Power.	Amperes.	List Price, Each. Broken Pkgs.	List Price, Each. Std. Pkgs.
Zaboxur	11295	16	1.75	$0.34	$0.29
		20	1.75	.34	.29
		25	1.75	.34	.29
Zaboxus	11296	30, 40, 50	1.75	.52	.47
Zaboxut	11297	20, 25	2-3	.42	.37
Zaboxuv	11298	30, 40	2-3	.46	.41
Zaboxuw	11299	50	2-3	.52	.47
Zaboxux	11300	20, 25	3.2-3.5	.46	.41
Zaboxuy	11301	30, 40	3.2-3.5	.48	.43
Zaboxuz	11302	50	3.75	.55	.50
Zaboya	11303	20, 25	4-5.5	.54	.49
Zaboyab	11304	30, 40	4-5.5	.57	.52
Zaboyac	11305	50	5.75	.63	.58
Zaboyad	11306	20, 25	6-7.5	.60	.55
Zaboyaf	11307	30, 40	6-7.5	.63	.58
Zaboyag	11308	50, 65	6-7.5	.70	.64
Zaboyah	11309	75, 125	6-7.5	.82	.72
Zaboyak	11310	20, 25	9-10	.82	.77
Zaboyal	11311	30, 40	9-10	.88	.80
Zaboyam	11312	50, 65	9-10	.95	.85

STEREOPTICON LAMPS.



Stereopticon Lamp with Conical Spiral Filament.



Stereopticon Lamp with Cylindrical Spiral Filament.

REGULAR STEREOPTICON LAMPS.

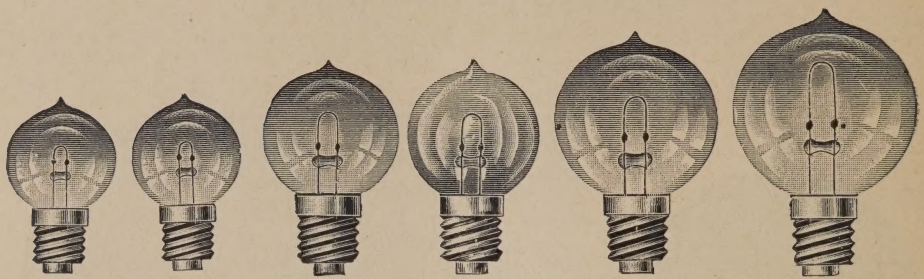
Code Word.	List No.	Horizontal Candle-Power.	Volts.	Watts.	Diameter.	Shape of Filament.	Plain Lamps with Edison Base.
Zadifit	5715	20	75 to 130	76	2½ ins.	Conical Spiral	$0.80
Zadifiv	5716	32	75 to 130	128	3⅛ ins.	Conical Spiral	1.20
Zadifiw	5717	50	75 to 130	200	3⅛ ins.	Conical Spiral	1.50
Zadifix	5718	100	75 to 130	375	3¾ ins.	Cylindrical Spiral	3.00
Zadifiy	5719	32	200 to 250	128	3⅛ ins.	Cylindrical Spiral	1.60
Zadifiz	5726	50	200 to 250	200	3¾ ins.	Cylindrical Spiral	2.00
Zadifo	5727	100	200 to 250	375	3¾ ins.	Cylindrical Spiral	4.50

SPECIAL STEREOPTICON LAMPS.

							Plain Lamps fitted with Edison Base.
Zadifob	5728	75	75 to 130	232	3⅛ ins.	Conical Spiral	1.50
Zadifoc	5729	100	75 to 130	260	3⅛ ins.	Conical Spiral	1.50

The special stereopticon lamps listed above are the regular fifty candle-power lamps operated at a higher voltage than normal, which shortens the life of the filament, but a very white and effective light is produced.

BATTERY LAMPS.



No. 32. No. 4634. | Nos. 33-34. No. 4635. | Nos. 35-36. No. 4637. | Nos. 37-38. No. 4639. | Nos. 39-40. No. 4641. | Nos. 41-43. No. 4643.

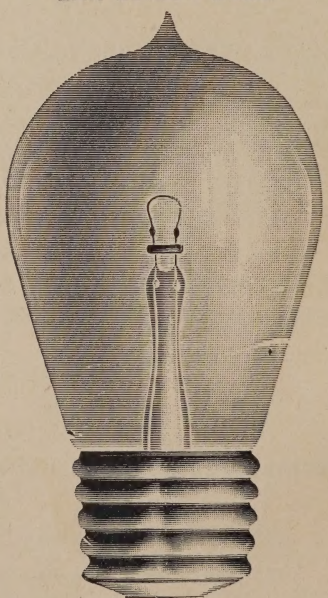
Code Word.	List No.	Mfr. No.		Plain Quantities less than 100 Lamps.
Zadifal	4634	32	3½ volts, ¾ C. P., .25 amp.	$0.40
Zadifam	4635	33	3½ volts, 1 C. P., .40 amp.	.40
Zadifan	4636	34	4 volts, 1 C. P., .25 amp.	.40
Zadifap	4637	35	4 volts, 2 C. P., .60 amp.	.40
Zadifar	4638	36	6 volts, 2 C. P., .25 amp.	.40
Zadifas	4639	37	6 volts, 3 C. P., .60 amp.	.48
Zadifat	4640	38	8 volts, 3 C. P., .25 amp.	.48
Zadifav	4641	39	6 volts, 4 C. P., .95 amp.	.48
Zadifaw	4642	40	8 volts, 3 C. P., .60 amp.	.48
Zadifax	4643	41	8 volts, 6 C. P., .65 amp.	.48
Zadifay	4644	42	10 volts, 6 C. P., .60 amp.	.48
Zadifaz	4645	43	14 volts, 1 C. P., .33 amp.	.48

For Frosted Lamps add .04 to the price of plain lamps.
For Superficially Colored Dipped add .08 to the price of plain lamps.

BATTERY LAMPS, WITH REGULAR EDISON BASE.

CANDLE FLAME LAMP.

No. 4646.
No. 44—3½ Volts.
Zadife 4646 ..... .54



No. 4648.
4 to 20 volts; 1 to 20 candle-power.
Zadifec 4648 ..... .60
Candle-power cannot be higher than voltage.

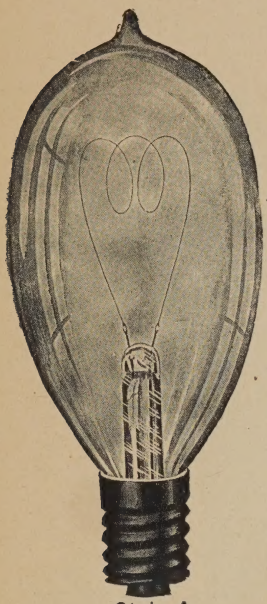
VEST-POCKET LAMPS.

No. 158—3½ Volts.
Tipless with Lens.
No. 4647.
Zadifeb 4647 ..... .54

VEST-POCKET LAMPS.

Midget—3½ Volts.
No. 4649.
Zadifed 4649 ..... .54

CANDELABRA LAMPS.



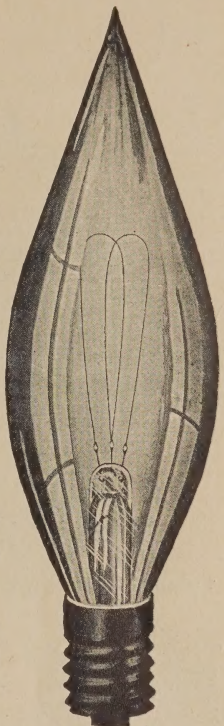
Style A.
8 Candle-Power, 110 Volts.
No. 28273.

STYLE "A."

Code Word.	List No.		Quantities Less Than 200 Lamps.
Zadifod	28273	Plain	$0.56
Zadifof	28274	Frosted	.60
Zadifog	28275	Natural Green or Blue Glass	.70
Zadifoh	28276	Natural Ruby Glass	.96
Zadifok	28277	Superficially Colored (dipped)	.64

STYLE "B."

Zadifol	28278	Plain	.56
Zadifom	28279	Frosted	.60
Zadifon	28280	Natural Green or Blue Glass	.70
Zadifop	28281	Natural Ruby Glass	.96
Zadifor	28282	Superficially Colored (dipped)	.64



Style B.
8 Candle-Power, 110 Volts.
No. 28278.

STYLE "D."

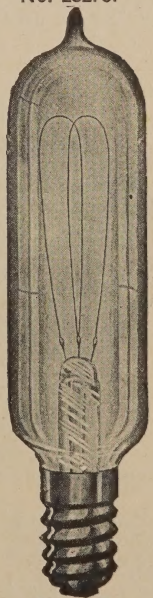
Zadifos	28283	Plain	.66
Zadifot	28284	Frosted	.70
Zadifov	28285	Natural Green or Blue Glass	.80
Zadifow	28286	Natural Ruby Glass	1.06
Zadifox	28287	Superficially Colored (dipped)	.74

Style D.
4 and 8 Candle-Power, 110 Volts.
No. 28283.

STYLE "E."

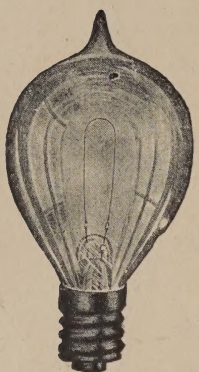
Zadifoy	28288	Plain	.56
Zadifoz	28289	Frosted	.60
Zadifu	28290	Natural Green or Blue Glass	.70
Zadifub	28291	Natural Ruby Glass	.96
Zadifuc	28292	Superficially Colored (dipped)	.64

Based with Edison Screw Candelabra Base. For German or French Candelabra Bases add .10 to list.

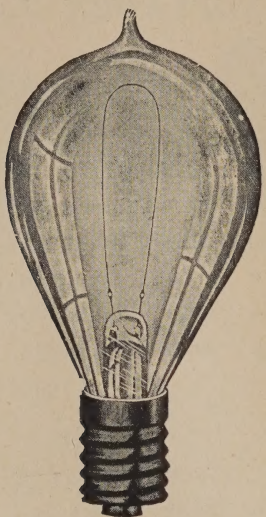


Style E.
4 and 8 Candle-Power, 110 Volts.
No. 28288.

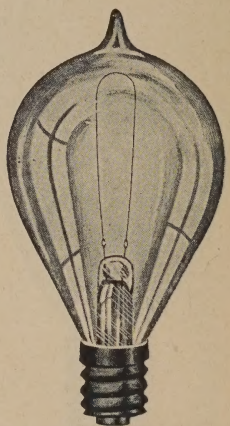
SERIES LAMPS.



Style I.
1 Candle-Power, 14 Volts.



Style J.
4 and 6 Candle-Power, 20 to 32 Volts.

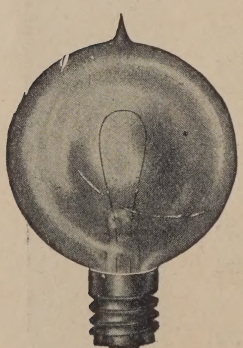


Style H.
3 Candle-Power, 14 Volts.
2 Candle-Power, 110 Volts.

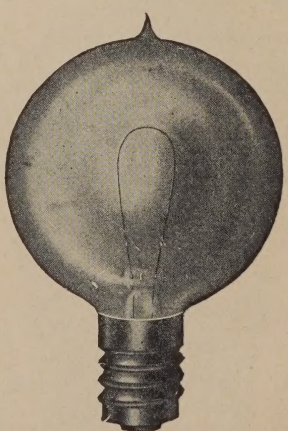
Code Word.	List No.		Quantities less than 200 Lamps.
Zadifif	28263	Plain	$0.46
Zadifig	28264	Frosted	.50
Zadifih	28265	Natural Green or Blue Glass	.56
Zadifik	28266	Natural Ruby Glass	.76
Zadifil	28267	Superficially Colored (dipped)	.54

MINIATURE OF CANDELABRA BASE.

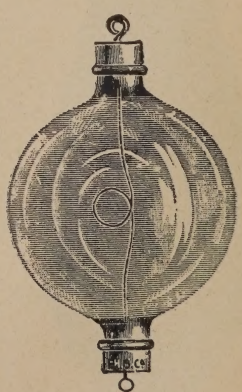
Style I is the regular style lamp for Christmas tree outfits. Style H is used for general decorative work. Style J is used for automobiles and launches, or where storage batteries are used.



Style G 10.
1 Candle-Power, 10 Volts.



Style G 12.
3 Candle-Power, 14 Volts.



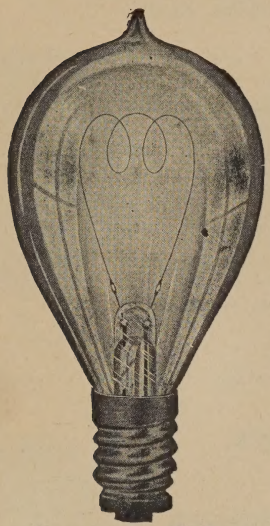
No. 47—Festoon.
3 Candle-Power, 14 Volts.

			Prices Style G 10 and G 12.	Prices No. 47 Festoon.
Zadifim	28268	Plain	.50	.60
Zadifin	28269	Frosted	.54	.64
Zadifip	28270	Natural Green or Blue Glass	.60	.70
Zadifir	28271	Natural Ruby Glass	.80	.90
Zadifis	28272	Superficially Colored (dipped	.58	.68

Style G 10 and G 12 furnished with Miniature and Candelabra Base.

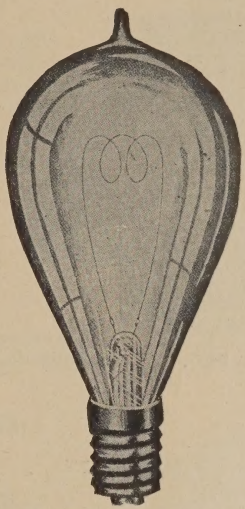
No. 47 Festoon Lamps are linked together in series for decorative effects and Christmas tree lighting.

DECORATIVE LAMPS.



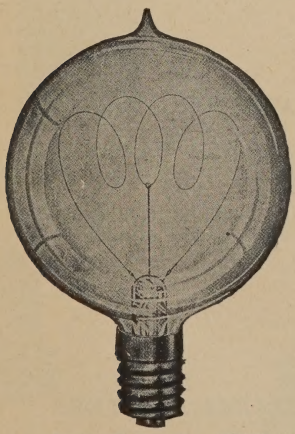
Style J. No. 28243.
2 Candle-Power, 110 volts. Candelabra Base.

Code Word.	List No.		Quantities less than 200 Lamps.
Zadifef	28243	Plain	$0.46
Zadifeg	28244	Frosted	.50
Zadifeh	28245	Natural Green or Blue Glass	.56
Zadifek	28246	Natural Ruby Glass	.76
Zadifel	28247	Superficially Colored (dipped)	.54



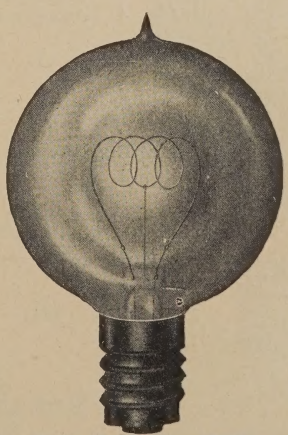
Style F. No. 28253.
4 and 8 Candle-Power, 110 volts. Candelabra Base.

Code Word.	List No.		Quantities less than 200 Lamps.
Zadifet	28253	Plain	$0.50
Zadifev	28254	Frosted	.54
Zadifew	28255	Natural Green or Blue Glass	.64
Zadifex	28256	Natural Ruby Glass	.90
Zadifey	28257	Superficially Colored (dipped)	.58



Style G 16. No. 28248.
8 and 16 Candle-Power, 110 volts. Candelabra Base.

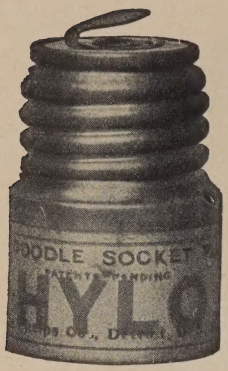
Zadifem	28248	Plain	.56
Zadifen	28249	Frosted	.60
Zadifep	28250	Natural Green or Blue Glass	.70
Zadifer	28251	Natural Ruby Glass	.96
Zadifes	28252	Superficially Colored (dipped)	.64



Style G 12. No. 28258.
2 Candle-Power, 110 volts. Miniature and Candelabra Base.

Zadifez	28258	Plain	.50
Zadifi	28259	Frosted	.54
Zadifib	28260	Natural Green or Blue Glass	.60
Zadific	21261	Natural Ruby Glass	.80
Zadifid	28262	Superficially Colored (dipped)	.58

INCANDESCENT SUPPLIES.



No. 9967.

SKEDOODLE PLUG.

The Skedoodle Plug fits any ordinary socket and holds a common lamp. It flashes the lamp on and off many times a minute. Will outlast several lamps. Each plug is complete in itself and independent of every other socket.

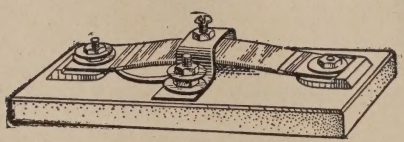
No skill is required to operate. No wiring necessary. Anyone can put it in place. The most convenient of all Skedoodles.

Direct or alternating current.

16 c. p. 100 to 120 volts.
8 c. p. 100 to 120 volts.
16 c. p. 200 to 250 volts.

Code Word.	List No.		List Price, Each.
Zadezuc	9967		$0.75

SKEDOODLE FLASHER.



No. 9968.

TYPE "A."

It is connected in series with Lamps on one side of circuit.

Zadezud	9968	½ Ampere Porcelain Base	$0.75
Zadezuf	9969	1 Ampere Porcelain Base	1.00
Zadezug	9970	2 Ampere Slate Base	2.00
Zadezuh	9971	4 Ampere Slate Base	5.00

No. 9972.

CANDELABRA ADAPTER.

Permitting the use of Candelabra Base Lamps in Standard Edison Base Sockets.

By means of this adapter, the minature lamp, with its candelabra base, which is too small to fit in the regular lamp socket, is made immediately available for use on an ordinary lighting circuit.

			Std. Pkg.	Per 100.
Zadezuk	9972		100	10.00

No. 9973.
Miniature.

MINIATURE AND CANDELABRA ADAPTERS.

No. 9974.
Candelabra.

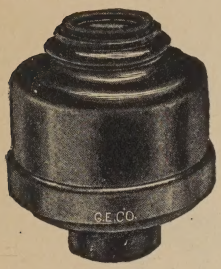
To adapt a Miniature Base Lamp to an American Candelabra Socket.

Zadezul	9973	10.00

To adapt an American Candelabra Lamp to a French Candelabra Socket.

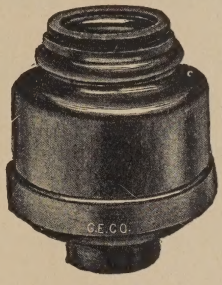
Zadezum	9974	10.00

MINIATURE AND CANDELABRA SOCKETS AND RECEPTACLES.



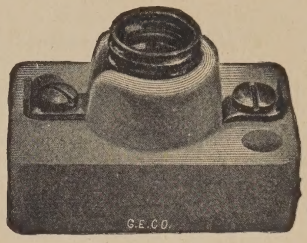
No. 5.
Miniature Socket.

List No.	Std. Pkg.	Per 100.
50777	200	$23.25



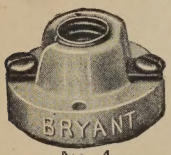
No. 3.
Candelabra Socket.

List No.	Std. Pkg.	Per 100.
50776	200	$23.50



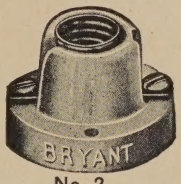
No. 6.
Candelabra Receptacle.

List No.	Std. Pkg.	Per 100.
50778	200	$10.00



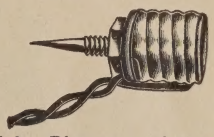
No. 4.
Miniature Receptacle.

9445	200	6.00



No. 2.
Candelabra Receptacle.

9446	200	6.00



Stick Pin or Christmas Tree Receptacle.

Miniature	200	12.00
Candelabra	200	11.00

No. 8.
Miniature Pendant.

30857	200	12.00

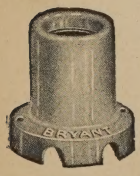
No. 9.
Candelabra Pendant.

30856	200	13.50

No. 1.
Candelabra.

9444	200	12.00

SIGN RECEPTACLES.

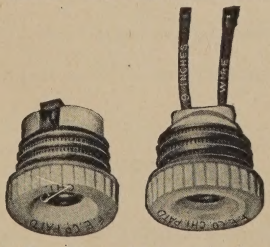


Candelabra.

25705	100	24.00

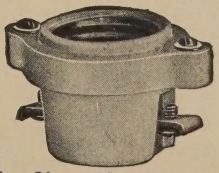
Miniature.

279	100	24.00



For Sheet Metal Work.

310	Candelabra	25.00
311	Miniature	25.00
312	Candelabra Weatherproof	25.00
313	Miniature Weatherproof	25.00



For Sheet Metal Work.
Miniature.

447	250	25.00

Candelabra.

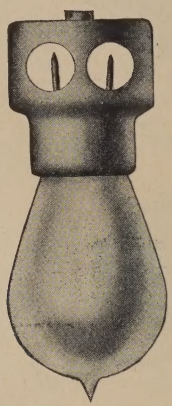
677	250	25.00

INCANDESCENT LAMPS.

THE ELBLIGHT SYSTEM.

This system consists of a number of flexible cables with Elblight lamps, provided with sharp pin terminals. The lamps may be placed at any point of the flexible cables.

SIGN BASE LAMP.



CABLE BASE LAMP.

Code Word.	List No.		List Price Each.
Zabawip	49113	Standard 4 c. p., sign base	$ .28
Zabawir	49114	Standard 4 c. p., cable base	.29
Zabawis	49115	Standard 2 c. p., miniature base, No. 2 and 3	.30½

These lamps are made for any voltage, special shape bulbs to order.

Zabawit	49116	Frosted and superficially colored lamps, extra	.02½
Zabawiv	49117	Natural colored glass lamps, extra for green, blue or purple	.10
Zabawiw	49118	Extra for amber, opal, ruby or canary	.20

ELBLIGHT CABLES.

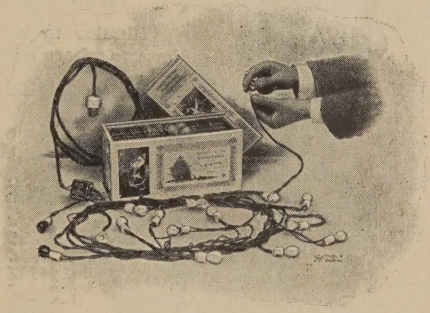
Zabawix	49119	Cable black weatherproofed, for outside and marine work, per twin foot	.30
Zabawiz	49120	Cable cotton, braided and fireproofed, for inside work, any color, per twin foot	.30

EDISON ELECTRIC DECORATIVE LIGHTING OUTFITS.

This outfit is packed all connected up ready for immediate use, and consists of a number of feet of flexible cord with a regular attaching plug at one end, and with branch festoons, each having eight miniature porcelain sockets wired thereon. With the outfit is supplied the necessary number of Miniature Decorative Edison Lamps, plain and in colors. To arrange the lighting decoration it is only necessary to apply the festoons tastefully to the object to be decorated, and screw the lamps into their sockets and the attaching plug into the nearest regular lamp socket. A turn of the key, and the decoration is complete.

The outfit is simple, flexible, thoroughly constructed and perfectly safe, and forms a most serviceable device which should be in every electrically lighted home. It is always ready for the decoration of the dinner table, chandeliers or Christmas tree.

SHOWING ONE METHOD OF DECORATION.



OUTFIT COMPLETE.

The outfits will be supplied for eight lamps and multiples of eight, i. e., 8, 16, 24 and 32 lamps, neatly packed in an attractively decorated wooden box. The lamps used give one candle power each and take one-third of an ampere for each series of lamps. The outfits can be supplied for any commercial voltage, and orders should specify the voltage of circuit and type of regular lamp socket used. The junction plug is so constructed that extra festoons can be connected, and thus the number of lamps may be increased or reduced as desired, according to the decorative effect sought.

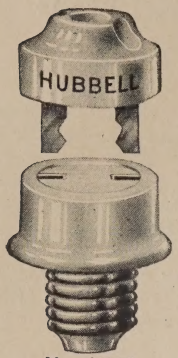
The outfits have extra lamps and the lamps are supplied plain and in colors.

The following is a list of the sizes supplied:

Code Word.	List No.		List Price, Each.
Zacizom	24593	Eight Light Outfit	$5.00
Zacizon	24594	Sixteen Light Outfit	8.50
Zacizop	24595	Twenty-four Light Outfit	12.00
Zacizor	24596	Thirty-two Light Outfit	15.00
Zacizos	24597	Extra festoons (ready for connection), consisting of eight sockets, with extra lamps, for increasing size of outfit	4.00

The twenty-four light outfit is the standard size.

Customers should be sure to get the Edison Outfit—it is approved by the National Board of Fire Underwriters.

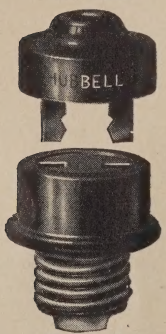


No. 49880.

HUBBELL SPECIALTIES.

HUBBELL ATTACHMENT PLUGS.

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zabekak	49880	5406	Edison Attachment Plug, porcelain cap	100	$0.30
Zabekal	49881	5407	T. H. Attachment Plug porcelain cap	100	.30
Zabekam	49882	5408	Edison Attachment Plug, hard rubber cap	100	.35
Zabekan	49883	5409	T. H. Attachment Plug, hard rubber cap	100	.35
Zabekap	49884	5410	Edison Attachment Plug, brass covered cap	100	.40
Zabekar	49885	5411	T. H. Attachment Plug, brass covered cap	100	.40
Zabekas	49886		Plugs furnished with tinted porcelains, red, green or yellow, add to list		.10

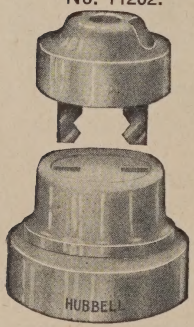


No. 11202.

HUBBELL COMPOSITION ATTACHMENT PLUG.

Similar to No. 5406, except that it is made of composition. For use where something stronger than porcelain is required.

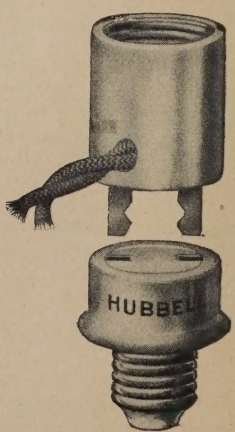
Zabowuh	11202	5467	Composition Attachment Plug	100	.60



No. 24855.

HUBBELL SIDE WALL ATTACHMENT PLUG.

Zacodid	24855	5426	Porcelain Cap, concealed	50	.40
Zacodif	24856	5427	Composition Plug, concealed	50	.45
Zacodig	24857	5428	Brass Covered Cap, concealed	50	.50
Zacodih	24857	5512	Porcelain Cap, cleat	50	.40
Zacodik	24858	5513	Composition cap, cleat	50	.45
Zacodil	24859	5514	Brass Covered Cap, cleat	50	.50
Zadimul	23476	5540	Porcelain Cap, moulding	50	.40
Zadimum	23477	5541	Composition Cap, moulding	50	.45
Zadimun	23478	5542	Brass Covered Cap, moulding	50	.50

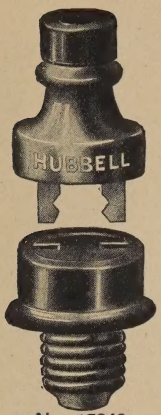


No. 23479.

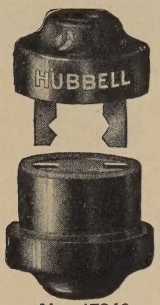
HUBBELL CURRENT TAP.

Zadimup	23479	5454	Edison Base, multiple	50	.50
Zadimur	23480	5509	T. H. Base, multiple	50	.50
Zadimus	23481	5510	Edison Base, series	50	.50
Zadimut	23482	5511	T. H. Base, series	50	.50

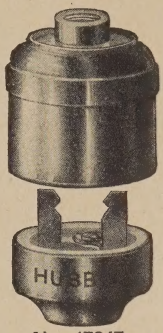
HUBBELL SPECIALTIES.



No. 17843.

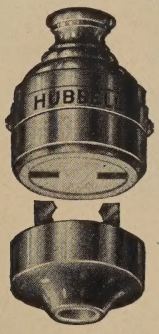


No. 17846.

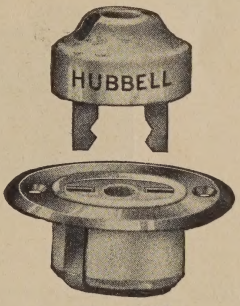


No. 17847.

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zacekep	17843	5491	Separable attachment plug to take ⅜ inch rubber bushing	50	$0.90
Zaceker	17844	5488	Same, with rubber base and porcelain bushing.	50	.60
Zaceket	17846	5518	Separable stage plug	50	.60
Zacekev	17847	5495	Separable chandelier or bracket attachment plug	20	1.00

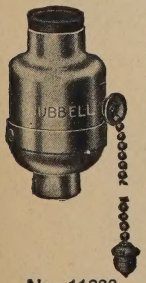


No. 49890.



No. 24852.

Zabekax	49890	5325	Chandelier Plug, porcelain cap	20	.70
Zabekaz	49891	5326	Chandelier Plug, hard rubber cap	20	.75
Zabeke	49892	5423	Chandelier Plug, brass covered porcelain cap	20	.80
Zacodi	24852	5506	Floor Receptacle, porcelain cap	25	1.15
Zacodib	24853	5507	Floor Receptacle, composition cap	25	1.20
Zacodic	24854	5508	Floor Receptacle, brass covered cap	25	1.25
Zacodim	24860	5515	Angle Attachment Plug, without base	20	.50
Zacodin	24861	5516	Angle Attachment Plug, with concealed base	20	.80
Zacodip	24862	5517	Angle Attachment Plug, with cleat base	20	.80



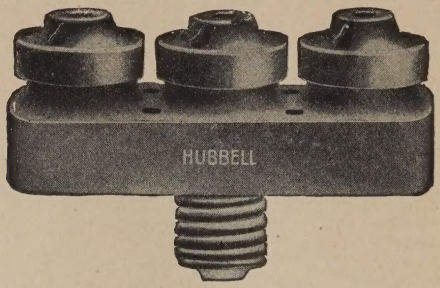
No. 11233.

HUBBELL CANDELABRA PULL SOCKET.

Zaboxaw	11233	5455	Candelabra pull socket	50	.60
Zaboxax	11234	5481	Candelabra extension for candle work	50	.35
Zaboxay	11235	5482	Collar to support candle	50	.05
Zaboxaz	11236	5483	Candle, 4 inch	..	.15

HUBBELL MULTIPLE ATTACHMENT PLUG.

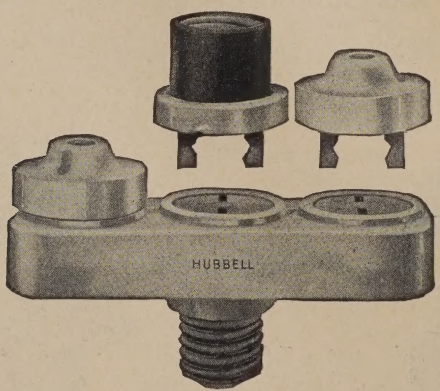
WITH LAMP BASE ATTACHMENT—FOR THREE PLUGS.



Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zabekeg	49896	5327	Ed. Multiple Attachment Plug—Lamp Base—three Plugs	10	$1.50
Zabekeh	49897	5328	T. H. Multiple Attachment Plug—Lamp Base—three Plugs	10	1.50

HUBBELL MULTIPLE ATTACHMENT PLUG.

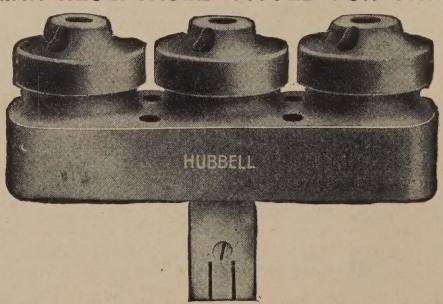
WITH LAMP BASE ATTACHMENT—FOR TWO PLUGS AND ONE LAMP.



Zabekek	49898	5331	Ed. Multiple Plug—Lamp Base—two Plugs—one Lamp	10	1.50
Zabekel	49899	5332	T. H. Multiple Plug—Lamp Base—two Plugs—one Lamp	10	1.50

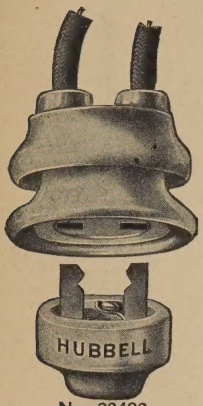
HUBBELL MULTIPLE ATTACHMENT PLUG.

FOR CHAPMAN RECEPTACLE—FITTED FOR THREE PLUGS.



Zabekem	49900	5335	Multiple Plug for Chapman Receptacle—three Plugs	10	1.50

HUBBELL PLUGS.



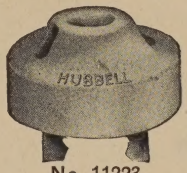
No. 23483.

HUBBELL WEATHERPROOF PLUG.

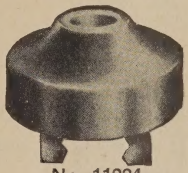
Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zadimuv	23483	5520	Porcelain Cap.....	30	$1.00
Zadimuw	23484	5521	Composition Cap.....	30	1.05
Zadimux	23485	5522	Brass Covered Cap.....	30	1.10

HUBBELL SEPARATE CAPS FOR PLUGS.

No. 11222.

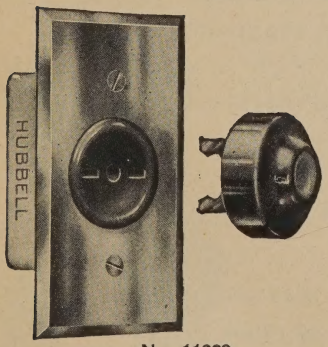


No. 11223.


No. 11224.

Zaboxag	11222	5419	Porcelain Cap.....	20	.15
Zaboxah	11223	5420	Composition Cap.....	20	.20
Zaboxak	11224	5421	Brass Covered Cap.....	20	.25

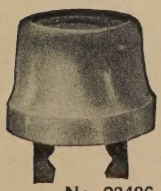
HUBBELL FLUSH ATTACHMENT PLUG.



No. 11228.

Zaboxal	11225	5415	Flush Attachment Plug, without cap, with 4½ x2¾ plate.....	50	1.25
Zaboxam	11226	5416	Flush Attachment Plug, with porcelain cap, with 4½x2¾ plate...	50	1.40
Zaboxan	11227	5417	Flush Attachment Plug, with composition cap, with 4½x2¾ plate...	50	1.45
Zaboxap	11228	5418	Flush Attachment Plug, with brass covered porcelain cap, with 4½x2¾ plate.....	50	1.50
Zaboxar	11229	5443	Flush Attachment Plug, without cap, with 2½ x4¼ plate.....	50	1.25
Zaboxas	11230	5444	Flush Attachment Plug, with porcelain cap, with 2½x4¼ plate....	50	1.40
Zaboxat	11231	5445	Flush Attachment Plug, with composition cap, with 2½x4¼ plate...	50	1.45
Zaboxav	11232	5446	Flush Attachment Plug, with brass covered porcelain cap, with 2½x4¼ plate.....	50	1.50

Polished brass, old brass, polished nickel, oxidized copper, are standard finishes. All goods shipped polished brass unless otherwise specified.


No. 23486.

HUBBELL RECEPTACLE FOR ATTACHM PLUG.

Zadimuy	23486	5424	Edison Base.....	30	.17
Zadimuz	23687	5425	T. H. Base.....	30	.17

BRYANT SPECIALTIES.

No. 1948.
(⅜ Full Size.)

ATTACHMENT PLUGS.

EDISON BASE.

BRYANT ATTACHMENT PLUG.

BRASS CAP—FUSELESS.

NATIONAL ELECTRICAL CODE STANDARD—250 VOLTS.

Code Word.	List No.	Std. Pkg.	List Price Each.
Zadehid	1948	250	$0.22

No. 1009.
(⅜ Full Size.)

BRASS CAP—FUSIBLE.

Zadehif	925	250	.22

ENAMELED WOOD HANDLE.

FUSELESS.

No. 3286.
(⅜ Full Size.)

Zadehig	1009	100	.12

PERKINS ATTACHMENT PLUGS.

PORCELAIN CAP—FUSELESS.

NATIONAL ELECTRICAL CODE STANDARD—250 VOLTS.

No. 1286.
(⅜ Full Size.)

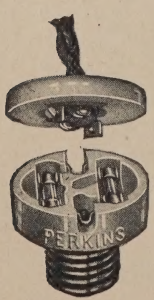
Zadehih	3286	250	.22

13-32 in. hole in cap for No. 16 New Code Portable Cord.

PORCELAIN CAP—FUSIBLE.

Zadehik	1286	250	.22

9-32 in. hole in cap for No. 16 New Code Lamp Cord.



No. 3386.
(⅜ Full Size.)

With Connections for Enclosed (Glass Tube) Fuses.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

Zadehil	3386	250	.25

A fusible attachment plug is a most desirable article, but the Underwriters have always declined to approve any of the familiar styles for open fuse. Their approval of our new plug for enclosed fuses, shown herewith, has been instant and enthusiastic, and we are sure that the trade will welcome this novel device, which is at once neat, practical and low priced.

Fuses for use with this plug are shown elsewhere. They are not included with the plug, and will not be sent unless ordered separately.

BRYANT SPECIALTIES.

No. 3284.
(3/8 Full Size.)

PERKINS SEPARABLE ATTACHMENT PLUGS.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

This Attachment Plug has been designed to meet the demand for a plug that can be inserted without twisting the cord. The base of the plug is inserted in the socket or receptacle first and the cap is attached afterward. The contacts are substantial and have ample carrying capacity and the snap catch is sufficiently rigid to prevent accidental detachment of the cap, while a sharp pull on the conducting cord will remove the cap without danger of damaging the receptacle.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadehim	3284	Edison base.....	250	$0.25

No. 9357.
(1/2 Full Size.)

EDISON SOCKET ADAPTER.

Zadehin	9357	Changing T. H. Socket to Edison	500	.06

No. 1274.
(5/8 Full Size.)

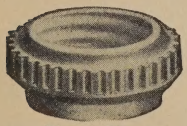
EDISON SOCKET RINGS.

COMPOSITION.

Zadehip	1273	Single Petticoat.....	100	.04
Zadehir	1274	Double Petticoat.....	100	.04

PORCELAIN.

Zadehis	1435	Single Petticoat.....	100	.05



No. 1435.
(5/8 Full Size.)

No. 990.
(5/8 Full Size.)

No. 985.
(5/8 Full Size.)

SOCKET BUSHINGS.

COMPOSITION.

Zadehit	990	1/8 inch, 9-32 inch hole.....	1000	7.50
Zadehiv	1490	3/8 inch, 13-32 inch hole....	100	10.00
Zadehiw	985	1/8 inch, fixture bushing....	1000	7.50

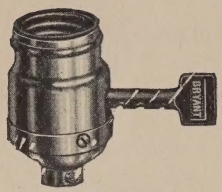
No. 9399.
(5/8 Full Size.)

SOCKET RING.

SOFT RUBBER, FOR USE WITH WEATHERPROOF SOCKETS.

Zadehix	9399	....	.03½

BRYANT SOCKETS.



(¼ Full Size.)

SOCKETS WITH EXTRA LONG KEYS.

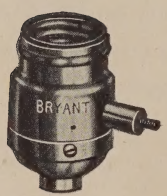
NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

The Key Sockets listed in this catalogue have keys three-quarter inch long, but can be fitted with longer keys on special order, which must specify distance desired between outside of shell and end of handle.

We carry the following in stock:

Code Word.	Length.	Code Word.	Length.
Zadawuv	1 inch.	**Zadawuy**	2 inch.
Zadawuw	1¼ inch.	**Zadawuz**	2½ inch.
Zadawux	1½ inch.		

On orders for Sockets with Extra Long Keys, where the length is not given, it is our rule to ship 1½ inch.



(⅜ Full Size.)

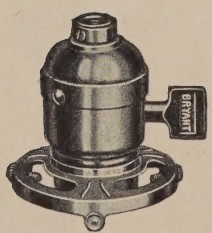
SOCKETS WITH EXTENSION KEYS.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

We are prepared to furnish our Sockets with Extension Keys, as shown in the illustration, designed to receive a special key, furnished by the fixture manufacturer, to match the fixture.

The threaded metal part of the extension key is thoroughly insulated from the other parts of the socket by hard rubber. The screw is 21/64 in. diameter. 26 thread.

Code Word.
Zadaxa ....



(⅜ Full Size.)

SOCKETS WITH SHADE-HOLDERS ATTACHED.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

It is now considerably more than three years since we placed on the market a complete line of sockets and wall sockets with Shade-Holders permanently attached to the shells. These received instant and continued favor, not only from fixture manufacturers, whose needs they were specially designed to fill, but also from a great number of contractors aiming to install only the very highest grade of electrical fittings. The workmanship was of the characteristic **Bryant Quality,** this being particularly evident in the method of attaching the Shade-Holder.

The 2¼ inch Holder as attached to the socket is substantially the same as the commercial article.

The 3¼ inch Holder is made solid, presenting a most elegant appearance, and forming a dust proof cap when used with stalactite and other styles of enclosed globes.

All sockets to which Shade-Holders are attached will be found listed on the same pages with the corresponding standard articles, but with separate list numbers and code words.

Wall Sockets and Rosette Sockets, with shade holders attached, are not listed, as the demand for them is slight, but can be furnished promptly on special orders.

SOCKETS IN SPECIAL FINISHES.

It is of great advantage to the electrical trade to be able to obtain sockets on short notice in various special finishes. It is also economical, as the refinishing of a socket after it has once been assembled is decidedly expensive.

To meet the demand for this class of goods we are now carrying in stock sockets in special finishes, for which there is a large demand, such as old brass, oxydized copper, polished gilt, etc.

Special finishes, occasionally used, we do not carry regularly, but are prepared to furnish on short notice to special order.

In placing orders for special finishes, which are not standardized, we suggest the submitting, at the same time, of a sample for our information.

Code Word.	Finish Number.	Finish.
Zadaxab	1	Polished Brass.
Zadaxac	2	Old or Brush Brass.
Zadaxad	3	Old English Bronze.
Zadaxaf	4	Antique Brass.
Zadaxag	5	Oxydized Brass.
Zadaxah	6	Polished Gilt.
Zadaxak	7	English Bronze.
Zadaxal	8	Satin Gold.
Zadaxam	9	Etruscan Gilt.
Zadaxan	10	Gold Bronze.
Zadaxap	11	Mottled Copper.
Zadaxar	12	Oxydized Copper.
Zadaxas	13	Antique or Acid Copper.
Zadaxat	14	Polished Bronze.
Zadaxav	15	Polished Copper.
Zadaxaw	16	Polished Steel.
Zadaxax	17	Polished Nickel.
Zadaxay	18	Oxydized Silver.
Zadaxaz	19	Ground or Butler's Silver.
Zadaxe	20	Wrought Iron.

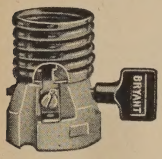
BRYANT SOCKETS.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

Standard Socket.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadasem	9386	Edison Key Socket, ⅛ inch.....	500	$0.33
Zadasen	50760	Edison Key Socket, ⅜ inch.....	250	.39
Zadasep	9392	Edison Keyless Socket, ⅛ inch.....	500	.30
Zadaser	50768	Edison Keyless Socket, ⅜ inch.....	250	.36

With 2¼-inch Shade-Holder attached.



Zadases	27740	Edison Key Socket, ⅛ inch.....	500	.39
Zadaset	28719	Edison Key Socket, ⅜ inch.....	250	.45
Zadasev	27741	Edison Keyless Socket, ⅛ inch.....	500	.36
Zadasew	28720	Edison Keyless Socket, ⅜ inch.....	250	.42

With 3¼-inch Shade-Holder attached.

Zadasex	29400	Edison Key Socket, ⅛ inch.....	100	.47
Zadasey	29401	Edison Key Socket, ⅜ inch.....	100	.53
Zadasez	29402	Edison Keyless Socket, ⅛ inch.....	100	.44
Zadasi	29403	Edison Keyless Socket, ⅜ inch.....	100	.50

No. 9386.
(⅜ Full Size.)

SOCKETS WITH REMOVABLE RING.

Standard Socket.

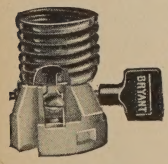
Zadasib	50740	Edison Key Socket, ⅛ inch.....	500	.35
Zadasic	50762	Edison Key Socket, ⅜ inch.....	250	.41
Zadasid	50741	Edison Keyless Socket, ⅛ inch.....	500	.32
Zadasif	50771	Edison Keyless Socket, ⅜ inch.....	250	.38

FIXTURE SOCKETS.

With Three Bayonet Joints.

Zadasig	1317	Edison Key Socket, ⅛ inch.....	500	.33
Zadasih	1318	Edison Key Socket, ⅜ inch.....	250	.39
Zadasik	1319	Edison Keyless Socket, ⅛ inch.....	500	.30
Zadasil	1320	Edison Keyless Socket, ⅜ inch.....	250	.36

With 2¼-inch Shade-Holder attached.



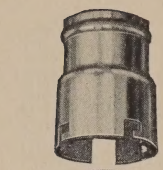
Zadasim	1431	Edison Key Socket, ⅛ inch.....	500	.39
Zadasin	1432	Edison Key Socket, ⅜ inch.....	250	.45
Zadasip	1433	Edison Keyless Socket, ⅛ inch.....	500	.36
Zadasir	1434	Edison Keyless Socket, ⅜ inch.....	250	.42

With 3¼-inch Shade-Holder attached.

Zadasis	1631	Edison Key Socket, ⅛ inch.....	100	.47
Zadasit	1632	Edison Key Socket, ⅜ inch.....	100	.53
Zadasiv	1633	Edison Keyless Socket, ⅛ inch.....	100	.44
Zadasiw	1634	Edison Keyless Socket, ⅜ inch.....	100	.50

No. 50740.
(⅜ Full Size.)

BRYANT SOCKETS.



No. 44147.
(⅜ Full Size.)

"SECURITY" SNAP" SOCKETS, EDISON BASE.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

REGULAR KEY SOCKETS.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadaxeb	44147	⅛ inch	500	$0.33
Zadaxec	44148	⅜ inch	250	.39
Zadaxed	44151	13-32 inch bushing	500	.33

KEYLESS SOCKETS.

Zadaxef	44149	⅛ inch	500	.30
Zadaxeg	44150	⅜ inch	250	.36
Zadaxeh	44152	13-32 inch bushing	500	.30

WITH 2¼ INCH SHADE HOLDER ATTACHED.

KEY SOCKET.

Zadaxek	44153	⅛ inch	500	.39
Zadaxel	44154	⅜ inch	250	.45
Zadaxem	44157	13-32 inch bushing	500	.39

KEYLESS SOCKET.

Zadaxen	44155	⅛ inch	500	.36
Zadaxep	44156	⅜ inch	250	.42
Zadaxer	44158	13-32 inch bushing	500	.36

WITH 3¼ INCH SHADE HOLDER ATTACHED.

KEY SOCKET.

Zadaxes	44159	⅛ inch	100	.47
Zadaxet	44160	⅜ inch	100	.53
Zadaxev	44163	13-32 inch bushing	100	.47

KEYLESS SOCKET.

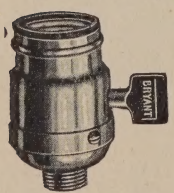
Zadaxew	44161	⅛ inch	100	.44
Zadaxex	44162	⅜ inch	100	.50
Zadaxey	44164	13-32 inch bushing	100	.44

No. 66237.
(⅜ Full Size.)

Sockets with 13-32 inch bushing are for pendant work. The bushing is sufficiently large to take No. 16 portable cord.

ELECTROLIER SOCKETS, EDISON BASE.

Zadaxez	66237	Keyless, ⅛ inch	250	.40
Zadaxi	50766	Keyless, ⅜ inch	100	.46



No. 43389.
(⅜ Full Size.)

SOCKETS WITH MALE THREAD, EDISON BASE.

WITH THREE BAYONET JOINTS.

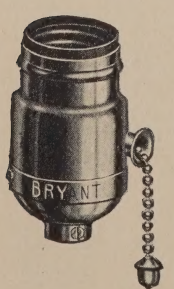
Zadaxib	43389	Key, ⅜ inch male thread	250	.39
Zadaxic	43390	Keyless, ⅜ inch male thread	250	.36

"SECURITY SNAP" SOCKETS.

Zadaxid	44814	Key, ⅜ inch male thread	250	.39
Zadaxif	44815	Keyless, ⅜ inch male thread	250	.36

Half-inch unlined conduit is exactly the right inside diameter to be threaded with a ⅜-inch iron pipe tap. It will frequently be found very convenient to use the above sockets, screwing them into the inside of the conduit instead of using a reducing coupling, a nipple and female thread sockets.

These sockets can be furnished with either 2¼ or 3¼-inch shade holders attached to the shells, on special order.



No. 35000.
(⅜ Full Size.)

PULL SOCKETS, EDISON BASE.

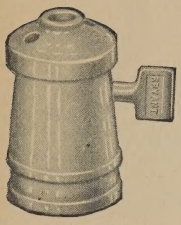
NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

Zadaxig	35000	⅛ inch	100	.60
Zadaxih	35001	⅜ inch	50	.66

Standard length of chain, 8 inches.

Chains may be shortened by cutting off to required length, removing shell, threading chain through eyelet in shell, and placing the end ball of chain in hook in segment.

BRYANT SOCKETS.

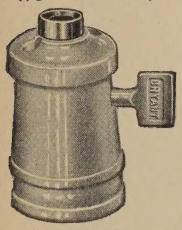


No. 9395.
(⅜ Full Size.)

PORCELAIN SOCKETS, EDISON BASE.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

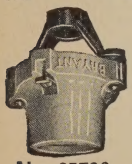
Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadaxik	9395	Key socket, pendent.....	250	$0.30
Zadaxil	9393	Keyless socket, pendent.....	250	.25
Zadaxim	50799	Key socket, ⅛ inch.....	100	.35
Zadaxin	50896	Keyless socket, ⅛ inch.....	100	.30
Zadaxip	34947	Key socket, ⅜ inch.....	100	.35
Zadaxir	34948	Keyless socket, ⅜ inch.....	100	.30



No. 50799.
(⅜ Full Size.)

STREET HOOD SOCKETS, EDISON BASE.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.



No. 25706.
(¼ Full Size.)

WITH SIDE LUGS.

Zadaxis	25706	Street Hood Socket.....	100	.27

No. 25707.
(1-5 Full Size.)

WITH WIRE LEADS.

Zadaxit	25707	Street Hood Socket.....	100	.44

Back yoke made of malleable iron, with ⅜-inch iron pipe thread.

600 VOLT KEYLESS SOCKETS, EDISON BASE.

No. 25709.
(⅜ Full Size.)

Zadaxiv	25709	Aluminum shell, ⅜ inch.....	50	.70
Zadaxiw	50701	Aluminum shell, ½ inch.....	50	.70
Zadaxix	25710	Brass shell, ⅜ inch.....	50	.70
Zadaxiy	50702	Brass shell, ½ inch.....	50	.70

In the above sockets the shell is made in two parts which screw together.

No. 32442.
(⅜ Full Size.)

Zadaxiz	32441	Aluminum shell, ⅜ inch.....	50	.50
Zadaxo	32440	Aluminum shell, ½ inch.....	50	.50
Zadaxob	32443	Brass shell, ⅜ inch.....	50	.50
Zadaxoc	32442	Brass shell, ½ inch.....	50	.50

In the above sockets the shell is made in two parts, which are secured together by means of bayonet joints and binding screws.

BRYANT WEATHERPROOF SOCKETS.

No. 9366.
(⅜ Full Size.)

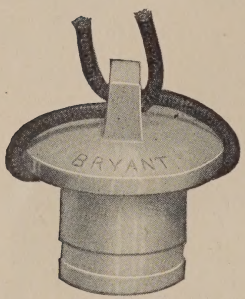
EDISON BASE.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

BRYANT PORCELAIN SOCKET.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zabayak	9366	.....	250	$0.25

Each Socket fitted with 8 inches of No. 14 B. & S. stranded rubber covered wire. Sockets with longer wires furnished on special order.



No. 50997.
(⅜ Full Size.)

BRAGDON WEATHERPROOF SOCKET.

Zadayal	50997	.....	250	.50

Each Socket fitted with 8 inches of No. 14 B. & S. stranded rubber covered wire. Sockets with longer wires furnished on special order.

Extension edge carries the drip away from the lamp and socket. Method of wiring at the top removes the strain from the socket itself and places it on the porcelain. Extra hole in porcelain at top allows for suspension by cord, if desired.

No. 60666.
(⅜ Full Size.)

BRYANT COMPOSITION SOCKET.

Zadayam	60666	.....	250	.60

WEATHERPROOF SOCKET.

WITH SPRING CENTER CONTACT.

Zadayan	42686	.....	250	.65

HARD RUBBER WEATHERPROOF SOCKETS.

Zadayap	50788	.....	250	1.00
Zadayar	42690	With Spring Center Contact	250	1.05

Each Socket filled with 12 inches of stranded rubber covered wire. Sockets with longer wires furnished on special order.

No. 43310.
(⅜ Full Size.)

MOULDED SOCKETS.

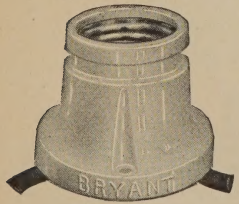
Zadayas	43310	.....	250	.36

Each Socket fitted with 6 inches of No. 14 B. & S. stranded rubber covered wire. Sockets with extra long wires furnished on special order.

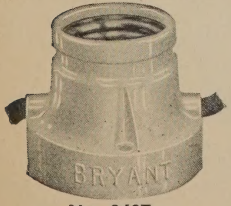
No. 43311.
(⅜ Full Size.)

No. 43314.
(⅜ Full Size.)

No. 9448.
(⅜ Full Size.)



No. 9408.
(⅜ Full Size.)



No. 9407.
(⅜ Full Size.)

BRYANT WEATHERPROOF SOCKETS.

EDISON BASE.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

MOULDED BRACKET SOCKETS.

WIRES INSIDE OF PIPE.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadayat	43311	⅛ inch.....	100	$0.60
Zadayav	43312	⅜ inch.....	100	.60

WIRES OUTSIDE OF PIPE.

Zadayaw	43313	⅛ inch.....	100	.60
Zadayax	43314	⅜ inch.....	100	.60

Each socket fitted with 6 inches of No. 18 B. and S. solid rubber covered fixture wire. Sockets with extra long wires furnished on special order.

PORCELAIN BRACKET SOCKETS.

Zadayay	9448	¼ inch.....	100	.60
Zadayaz	9496	⅜ inch.....	100	.60

Each socket fitted with 8 inches of No. 18 B. and S. solid rubber covered fixture wire. Sockets with longer wires furnished on special order.

Cap is a brass casting, polished and lacquered, and fitted with steel set screw.

BRYANT WEATHERPROOF RECEPTACLES.

EDISON BASE.

NATIONAL ELECTRICAL CODE STANDARD—250 VOLTS.

WITH BOTTOM WIRES.

Zadaye .	9408	.....	100	.40

WITH SIDE WIRES.

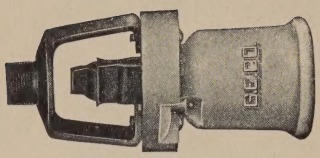
Zadayeb	9407	.....	100	.40

These are specially heavy and adapted particularly for use in breweries, cellars, warehouses, etc.

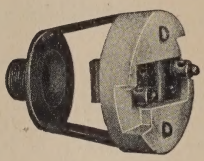
Each receptacle fitted with 8 inches of No. 14 B. and S. standard rubber covered wire. Receptacles with longer wires furnished on special order.

G. E. SOCKETS.

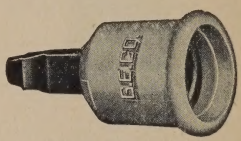
FOR SERIES INCANDESCENT SYSTEM.



No. 25708.



No. 25712.



No. 25711.

Code Word.	List No.		List Price, Each.
Zosu	25708	Porcelain series socket and receptacle, complete, including iron yoke No. 25714, for use with large Edison Screw base lamps, used with brackets	$2.00
Zosub	25717	Porcelain series socket and receptacle, complete, including iron yoke No. 19043, for use with large Edison screw base lamps, old style bracket	2.00
Zosud	29170	Porcelain socket and receptacle, complete, with iron yoke, Cat. No. 29172, for standard Edison screw base lamps, used with brackets.	1.50
Zozuf	25711	Porcelain series socket only, for Nos. 25708, 25717	1.00
Zosug	25720	Porcelain series socket only, for No. 29170	.50
Zosuh	25712	Porcelain receptacle, with clips and iron yoke, No. 25714	1.00
Zosuk	25718	Porcelain receptacle, with clips and iron yoke, No. 19043	1.00
Zosul	29171	Porcelain receptacle, with clips and iron yoke, No. 29172	1.00
Zosum	25713	Porcelain receptacle, with clips only	.65
Zosun	25714	Iron yoke, with two screws (⅞-inch 18 thread)	.35
Zosup	29172	Iron yoke, with two screws (⅞-inch 18 thread)	.35
Zosur	19043	Iron yoke, with two screws (⅜-inch 18 pipe thread)	.35

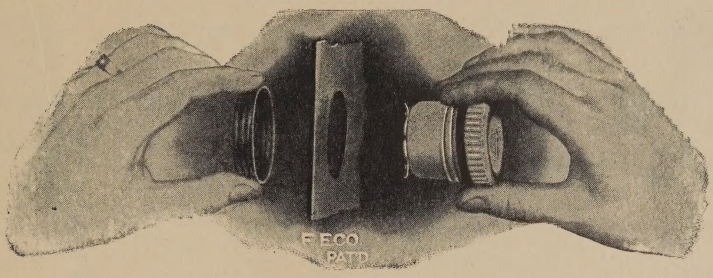
BRASS SHELL SERIES SOCKETS FOR LAMPS WITH T-H BASES.

No. 4504.

No. 4505.

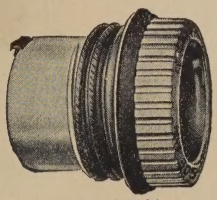
Zosus	4504	Series socket for arc circuits up to 9.6 amperes	2.00
Zosut	4505	Series socket for circuits of 7.5 amperes or less	1.50

FEDERAL CLAMP SOCKETS.



These sockets are the greatest labor savers on the market. Necessary only to punch hole, insert socket and fasten with clamping ring. No tools or screws are required.

They are made of one piece, best vitrified porcelain, with pure copper shells. The clamping rings are aluminum and the sockets are provided with leather gaskets to make a weatherproof joint.

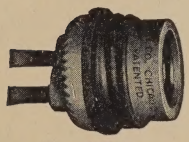


No. 43341.

NO. 305 SOCKET.

Standard size, for use with sheet metal work (sign construction, outlining buildings, etc.), Can also be used on glass. Closed type base, lamp shell removable from the front. Made with Edison base only.

Code Word.	List		List Price. Each.
Zisen . .	43341	....	$0.30

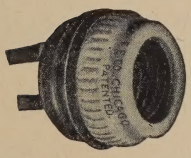


No. 43342.

NO. 301 SOCKET.

Similar to No. 43341, except that shell cannot be removed from front and base has openings.

Zisev	43346	.....	.30

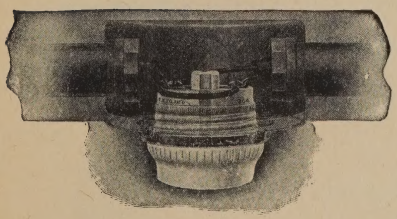


No. 43343.

NO. 302 SOCKET.

Standard size, Edison Base Socket. For use in packing h uses, breweries, etc., where moisture collects. Federal porcelain enameled steel shades can be clamped on these sockets, protecting the lamps and preventing moisture from getting into the socket.

Zisep	43342..	.....	.35



No. 43344.

NO. 303 SOCKET.

Weatherproof Festoon Socket. Designed for festoon and window displays. Can be used with a shade, as mentioned above, or with a reflector clip for inside work.

Ziser	43343	.....	.35

NO. 304 SOCKET.

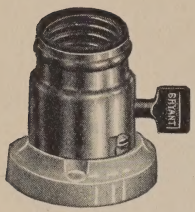
No. 304 standard size, Edison base for outlet box work. Can be adapted to any style of outlet box. Fitted with clamping ring and leather gasket. We also make various styles of outlet box covers.

Zises	43344	Socket only.....	.30

MINIATURE SOCKETS SIMILAR TO THE ABOVE.

		Mfr. No.		
Ziset	43345	310	Candelabra size, Edison base socket.....	.25
Zisew	43347	312	Candelabra, Edison base. weatherproof socket.....	.25

BRYANT WALL SOCKETS.

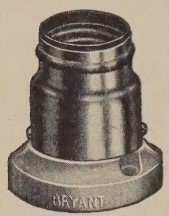


No. 9184.
(⅜ Full Size.)

EDISON BASE.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

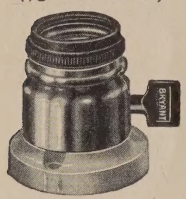
Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadaxod	9184	Key Wall Socket.....	250	$0.44



No. 9185.
(⅜ Full Size.)

Zadaxof	9185	Keyless Wall Socket.....	250	.40

The above Sockets can be furnished with either 2¼ or 3¼ inch Shade-Holders attached to the shells on special order.



No. 50747.
(⅜ Full Size.)

WITH REMOVABLE RING.

Zadaxog	50747	Edison Key Wall Socket.....	250	.44
Zadaxoh	50723	Edison Keyless Wall Socket Solid	100	.30
Zadaxok	29176	Edison Keyless Wall Socket, Solid, Brown Porcelain....	100	.30
Zadaxol	50745	Edison Keyless Wall Socket, Slotted	250	.30
Zadaxom	50786	Edison Keyless Wall Socket, Slotted, Brown Porcelain..	250	.30

No. 50723.
(⅜ Full Size.)

No. 50748.
(⅜ Full Size.)

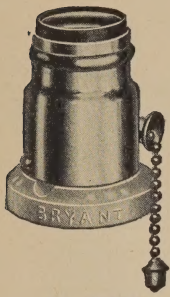
WITH REMOVABLE RING AND CONCEALED BASE.

Zadaxon	50748	Edison Key Wall Socket.....	250	.44

No. 50746.
(⅜ Full Size.)

Zadaxop	50746	Edison Keyless Wall Socket...	250	.40

BRYANT WALL SOCKETS.



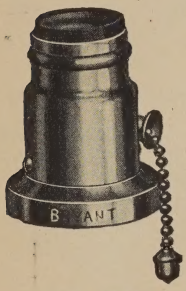
No. 45006.
(3/8 Full Size.)

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

EDISON BASE.

PULL WALL SOCKETS.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadeces	35006	Pull Wall Socket	100	$0.70



No. 35028.
(3/8 Full Size.)

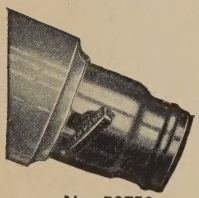
Concealed Base.

Zadecet	35028	Pull Wall Socket	100	.75

Standard length of chain, 8 inches.
Chains may be shortened by cutting off to required length, removing shell, threading chain through eyelet in shell, and placing the end ball of chain in hook in segment.

ANGLE WALL SOCKETS.

Zadecev	50753	Key	100	.55
Zadecew	50755	Keyless	100	.50

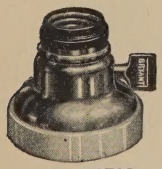


No. 50753.
(3/8 Full Size.)

PULL ANGLE WALL SOCKET.

Zadecex	35021	Pull Angle Wall Socket	25	.70

Standard length of chain, 8 inches.
Chains may be shortened by cutting off to required length, removing shell, threading chain through eyelet in shell, and placing the end ball of chain in hook in segment.
These sockets can be furnished with either 2¼ or 3¼ inch shade holders attached to shell, on special order.

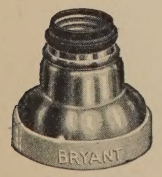


No. 50783.
(1/4 Full Size.)

WITH DOUBLE POLE FUSE.

NATIONAL ELECTRICAL CODE STANDARD. 125 VOLTS.

Zadecey	50783	Key	250	.50
Zadecez	50784	Keyless	250	.55



No. 50784.
(1/4 Full Size.)

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

Zadeci	50717	Keyless Wall Socket	250	.25
Zadecib	50785	Keyless Wall Socket, concealed	100	.45
Zadecic	24998	Keyless Wall Socket for switchboard. With studs for rear connection	100	.30

BRYANT PORCELAIN RECEPTACLES.

No. 9171.
(⅜ Full Size.)

EDISON BASE.

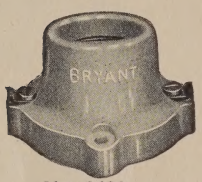
Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadaxor	9171	Cleat Receptacle.....	500	$0.10
Zadaxos	50757	Cleat Receptacle, with Copper Fittings and Screws	250	.20

Supported by One Screw in the Center.

No. 9394.
(⅜ Full Size.)

Zadaxot	9394	Cleat Receptacle, with Removable Ring....	250	.20

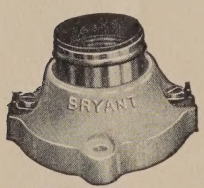
Supported by One Screw in the Center.



No. 9402.
(⅜ Full Size.)

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

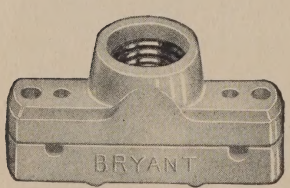
Zadaxov	9402	Cleat Receptacle.....	500	.15



No. 9403.
(⅜ Full Size.)

FOR SHADE-HOLDER.

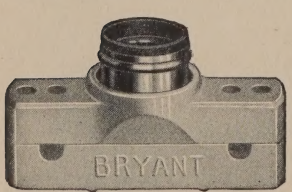
Zadaxow	9403	Cleat Receptacle.....	250	.25



No. 23210.
(⅜ Full Size.)

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

Zadaxox	23210	Cleat Receptacle.....	250	.25



No. 23209.
(⅜ Full Size.)

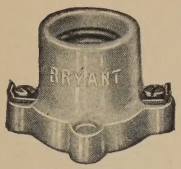
FOR SHADE-HOLDER.

Zadaxoy	23209	Cleat Receptacle.....	250	.30

BRYANT PORCELAIN RECEPTACLES.

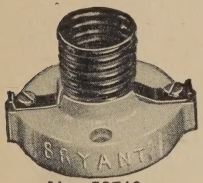
EDISON BASE.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.



No. 50715.
(⅜ Full Size.)

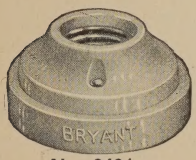
Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadaxoz	50715	Pony Cleat Receptacle.....	500	$0.15
Zadaxu	11221	Pony Cleat Receptacle, with Phosphor Bronze Flexible Spring Contact.....	500	.20



No. 50716.
(⅜ Full Size.)

For Testing, Temporary and Decorative Work.

Zadaxub	50716	Cleat Testing Base.....	500	.18

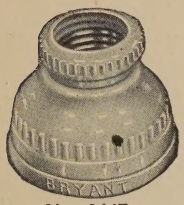


No. 9401.
(⅜ Full Size.)

Fusible—Single Pole.

Zadaxuc	9401	Receptacle, Slotted Base....	100	.40

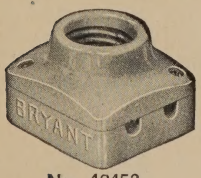
Cover held in place by brass machine screw.



No. 9447.
(⅜ Full Size.)

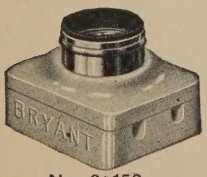
For Shade-Holder—Fusible—Double Pole.

Zadaxud	9447	Concealed Receptacle, with Removable Ring.....	100	.45



No. 42453.
(⅜ Full Size.)

Zadaxuf	42453	2-wire Moulding Receptacle.	250	.25

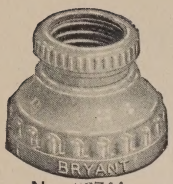


No. 34152.
(⅜ Full Size.)

FOR SHADE-HOLDER.

Zadaxug	34152	2-wire Moulding Receptacle.	250	.30

BRYANT PORCELAIN RECEPTACLES.

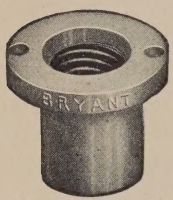


No. 50744.
(⅜ Full Size.)

EDISON BASE.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadaxuh	**50744**	Concealed Receptacle, with Removable Ring.....	100	**$0.30**

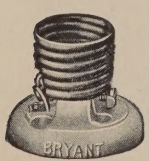


No. 9514.
(⅜ Full Size.)

Zadaxuk	**9514**	Flush Receptacle.....	250	**.30**

No. 9397.
(⅜ Full Size.)

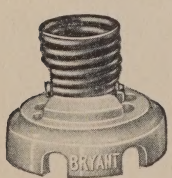
Zadaxul	**9397**	Conduit Box Receptacle.....	250	**.20**



No. 40507.
(⅜ Full Size.)

Zadaxum	**40507**	Conduit Receptacle.....	250	**.17**

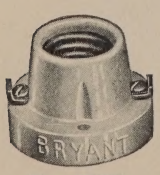
This is No. 50746 Keyless Wall Socket with Shell, Lining and Ring omitted.



No. 40537.
(⅜ Full Size.)

Zadaxun	**40537**	Conduit Receptacle.....	250	**.18**

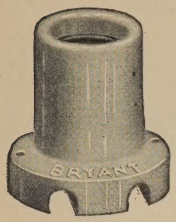
This is No. 50745 Keyless Wall Socket with Shell, Lining and Ring omitted.



No. 28795.
(⅜ Full Size.)

Zadaxup	**28795**	Cleat Receptacle, with Spring Center Contact.....	250	**.15**

BRYANT PORCELAIN RECEPTACLES.



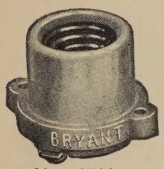
No. 50782.
(⅜ Full Size.)

EDISON BASE.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

SHORT SKIRT SIGN RECEPTACLES.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadaxur	50899	Sign Receptacle.....	100	$0.25



No. 1700.
(⅜ Full Size.)

LONG SKIRT SIGN RECEPTACLE.

Diameter of base, 2⅜ inches; height above base, 1¾ inches.
Thickness of base, ½ inch; diameter of top, 1⅝ inches.

Zadaxus	50782	Sign Receptacle.....	100	.25

No. 25705.
(⅜ Full Size.)

PONY SIGN RECEPTACLE.

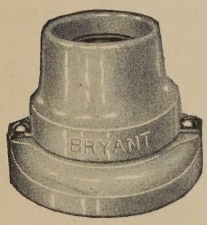
Diameter of base, 1$\frac{5}{16}$ inches; height above base, 1 inch.
Thickness of base, ½ inch; diameter of top, 1½ inches.

Zadaxut	1700	Pony Sign Receptacle....	500	.14

SIGN RECEPTACLES FOR CANDELABRA BASE LAMPS.

Diameter of base, 1⅜ inches; thickness of base, ⅜ inch.
Height above base, ⅞ inch; diameter of top, ⅞ inch.
Fitted with same size Screw Shell as No. 9446 Receptacle.

Zadaxuv	25705	Candelabra Sign Receptacle	100	.24

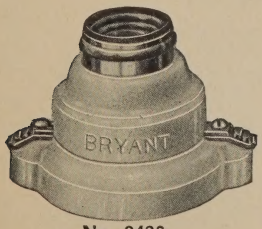


No. 9404.
(⅜ Full Size.)
All Caps are Interchangeable and Will Fit Any K. W. Rosette Base.

BRYANT K. W. ROSETTE RECEPTACLES.

NATIONAL ELECTRICAL CODE STANDARD. 125 VOLTS.

Zadaxuw	9404	Concealed	50	.40
Zadaxux	9434	Cleat	50	.40
Zadaxuy	9435	2-wire Moulding.....	50	.40
Zadaxuz	45364	3-wire Moulding.....	50	.40
Zadaya	29173	Combination	50	.40

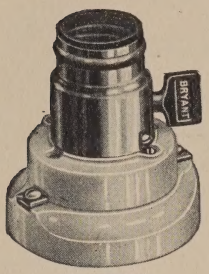


No. 9436.
(⅜ Full Size.)
All Caps are Interchangeable and Will Fit Any K. W. Rosette Base.

K. W. SHADE-HOLDER ROSETTE RECEPTACLES.

Zadayab	9405	Concealed	50	.50
Zadayac	9436	Cleat	50	.50
Zadayaf	9437	2-wire Moulding.....	50	.50
Zadayag	45365	3-wire Moulding.....	50	.50
Zadayah	29174	Combination	50	.50

BRYANT K. W. ROSETTE—SOCKETS.



No. 50729.
(⅜ Full Size.)
Caps are interchangeable and will fit any K. W. Rosette Base.

NATIONAL ELECTRICAL CODE STANDARD. 125 VOLTS.

EDISON BASE.

Key.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadekan	50729	Concealed	100	$0.60
Zadekap	50730	Cleat	100	.60
Zadekar	50731	2-Wire Moulding	100	.60
Zadekas	45361	3-Wire Moulding	100	.60
Zadekat	28727	Combination	100	.60

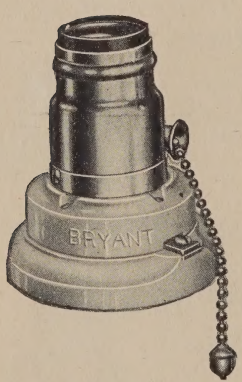
Keyless.

Zadekav	50732	Concealed	50	.55
Zadekaw	50733	Cleat	50	.55
Zadekax	50734	2-Wire Moulding	50	.55
Zadekay	45362	3-Wire Moulding	50	.55

These sockets can be furnished with either 2¼ or 3¼ inch shadeholders attached to the shade, on special order.

REMOVABLE RING.

Zadekef	38398	Edison Key, concealed	100	.60
Zadekeg	38399	Edison Key, cleat	100	.60
Zadekeh	38600	Edison Key, 2-wire moulding	100	.60
Zadekek	46222	Edison Key, 3-wire moulding	100	.60
Zadekel	38601	Edison Key, combination	100	.60
Zadekem	38602	Edison Keyless, concealed	50	.55
Zadeken	38603	Edison Keyless, cleat	50	.55
Zadekep	38604	Edison Keyless, 2-wire moulding	50	.55
Zadeker	46223	Edison Keyless, 3-wire moulding	50	.55
Zadekes	38605	Edison Keyless, combination	50	.55



No. 35009.
(⅜ Full Size.)

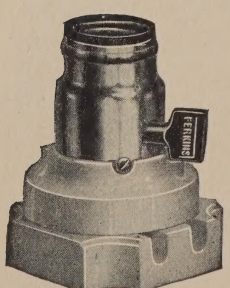
K. W. PULL ROSETTE—SOCKETS.

NATIONAL ELECTRICAL CODE STANDARD. 125 VOLTS.

Zadekaz	35009	Concealed	20	1.10
Zadeke	35010	Cleat	20	1.10
Zadekeb	35011	2-Wire Moulding	20	1.10
Zadekec	35031	3-Wire Moulding	20	1.10
Zadeked	35018	Combination	20	1.10

Standard length of chain on each socket, 8 inches.

Chains may be shortened by cutting off to required length, removing shell, threading chain through eyelet in shell, and placing the end ball of chain in hook in segment.



No. 50729.
(⅜ Full Size.)
Caps are interchangeable and will fit any Thomas 125-Volt Rosette Base.

THOMAS ROSETTE—SOCKETS.

NATIONAL ELECTRICAL CODE STANDARD. 125 VOLTS.

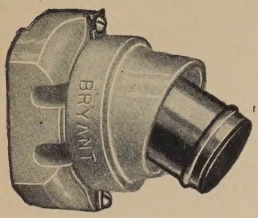
Zadeket	24990	Edison Key, concealed	100	.60
Zadekev	24991	Edison Key, cleat	100	.60
Zadekew	24992	Edison Key, 2-wire moulding	100	.60
Zadekex	24993	Edison Keyless, concealed	50	.55
Zadekey	24994	Edison Keyless, cleat	50	.55
Zadekez	24995	Edison Keyless, 2-wire moulding	50	.55

These sockets can be furnished with either 2¼ or 3¼ inch shadeholders attached to the shade, on special order.

REMOVABLE RING.

Zadeki	46262	Edison Key, concealed	100	.60
Zadekib	46263	Edison Key, cleat	100	.60
Zadekic	46264	Edison Key, 2-wire moulding	100	.60
Zadekid	46265	Edison Keyless, concealed	50	.55
Zadekif	46266	Edison Keyless, cleat	50	.55
Zadekig	46267	Edison Keyless, 2-wire moulding	50	.55

BRYANT K. W. ROSETTE RECEPTACLES.



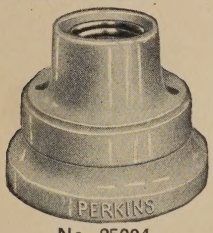
No. 9439.
(⅜ Full Size.)
All Caps Are Interchangeable and Will Fit Any K. W. Rosette Base.

EDISON BASE.

NATIONAL ELECTRICAL CODE STANDARD. 125 VOLTS.

ANGLE.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zabayec	9406	Concealed	50	$0.80
Zabayed	9438	Cleat	50	.80
Zabayef	9439	2-wire Moulding.....	50	.80
Zabayeg	45366	3-wire Moulding.....	50	.80
Zabayeh	29175	Combination	50	.80

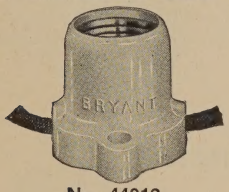


No. 25094.
(⅜ Full Size.)
Caps Are Interchangeable and Will Fit Any Thomas 125-volt Rosette Base.

THOMAS ROSETTE RECEPTACLES.

NATIONAL ELECTRICAL CODE STANDARD. 125 VOLTS.

Zabayek	25094	Concealed	50	.40
Zabayel	25092	Cleat	50	.40
Zabayem	25096	2-wire Moulding.....	50	.40

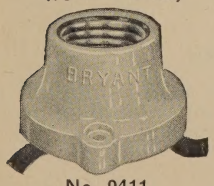


No. 44912.
(⅜ Full Size.)

THOMAS SHADE-HOLDER ROSETTE RECEPTACLES.

NATIONAL ELECTRICAL CODE STANDARD. 125 VOLTS.

Zabayen	25093	Concealed	50	.50
Zabayep	25091	Cleat	50	.50
Zabayer	25095	2-wire Moulding.....	50	.50



No. 9411.
(⅜ Full Size.)

BRYANT WEATHERPROOF RECEPTACLES.

EDISON BASE.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

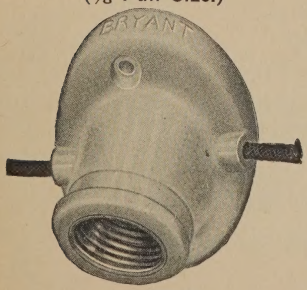
WITH SIDE WIRES.

Zabayes	44912	Pony	100	.35

WITH BOTTOM WIRES.

Zabayet	9411	Pony	100	.35

Each Receptacle fitted with 8 inches of No. 14 B. & S. stranged rubber covered wire. Receptacles with longer wires furnished to order.



No. 30000.
(½ Full Size.)

ANGLE WEATHERPROOF RECEPTACLE.

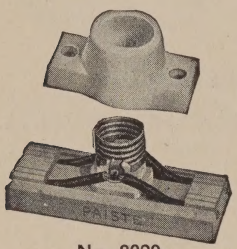
WITH SIDE WIRES.

Zabayev	30000	.....	100	.45

Each Receptacle fitted with 8 inches of No. 14 stranded rubber covered wire. Receptacles with longer wires furnished on special order.

PAISTE FIELDING RECEPTACLES.

This splendid line of receptacles now comprises more than a dozen different styles, varying in size and shape to meet the requirements of many different uses, although the method of their wiring remains the same in all. The Standard Fielding Receptacle, No. 50724, best shows the principle. The receptacle is made in two parts, the lamp receptacle part and the cover piece. The receptacle part is just set on top of the moulding, and the feed wires are bared ¼ inch to slip under the set screws. The porcelain cover is set on and screwed to the moulding. The capping is then cut square to meet the square ends of the cover piece. For moulding work they are superior to any other receptacles now on the market.

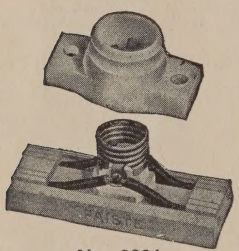


No. 8029.
(⅜ Full Size.)

TWO WIRE MOULDING.

PLAIN TYPE.

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zademim	8029	50724	Edison base.....	250	$0.25
Zademin	8030	270	T.-H. base.....	250	.25



No. 8031.
(⅜ Full Size.)

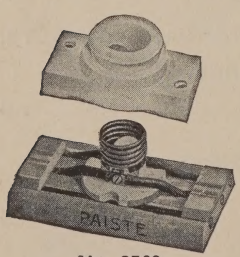
SHADE HOLDER TYPE.

Zademip	8031	50726	Edison base.....	250	.30
Zademir	8032	271	T.-H. base.....	250	.30

THREE WIRE MOULDING.

Zademis	3569	36519	Edison base.....	250	.35

Adapted to use with shade-holder.



No. 3569.
(⅜ Full Size.)

FOR CLEAT WORK.

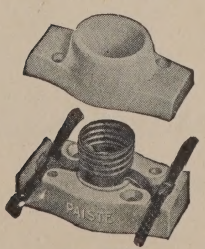
A most convenient line to use with open wiring, following closely the Fielding receptacle for moulding work. The cover piece completely conceals the contact terminals.

Plain Type.

Zademit	8025	23210	Edison base.....	250	.25
Zademiv	8026	252	T.-H. base.....	250	.25

Shade Holder Type.

Zademiw	8027	23209	Edison base.....	250	.30
Zademix	8028	253	T.-H. base.....	250	.30



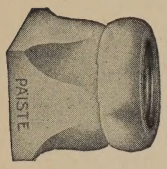
No. 8025.
(⅜ Full Size.)

WEATHERPROOF SOCKET SHADE HOLDER.

For Use with Fielding Receptacles.

Zademiy	8037	4008	2¼ inch.....	144	12.50
Zademiz	8038	5201	3¼ inch.....	144	26.75

PAISTE FIELDING RECEPTACLES.



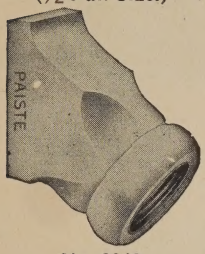
No. 8017.
(½ Full Size.)

FOR TWO WIRE MOULDING.

A smaller type than the Standard Fielding Receptacle, admitting of their being placed closer together, thus securing a more brilliant effect in lighting. All of these receptacles can be used with shade holder.

STRAIGHT TYPE.

Code Word.	List No.	Mfr. No.	Std. Pkg.	List Price, Each.
Zademex	8017	33581	250	$0.30

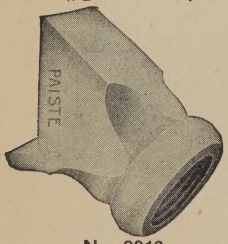


No. 8018.
(½ Full Size.)

60 DEGREE ANGLE TYPE.

For Vertically Run Molding.

Zademey	8018	33582	250	.35



No. 8019.
(½ Full Size.)

60 DEGREE ANGLE TYPE.

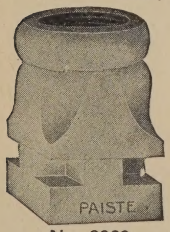
For Horizontally Run Molding.

Zademez	8019	34353	250	.35

FOOTLIGHT RECEPTACLE.

This receptacle is made to fasten to angle irons required in many theatres for footlights. It is secured to the angle iron by means of a central screw and may be used with shade holder.

Census	8022	32959	250	.35



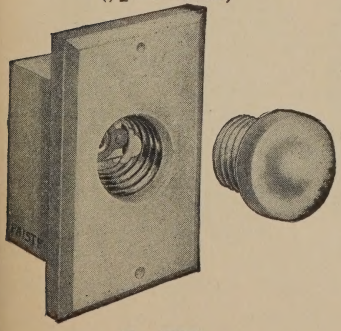
No. 8022.
(½ Full Size.)

PAISTE ALL-PORCELAIN FLUSH RECEPTACLE.

FOR EDISON BASE ATTACHMENT PLUGS.

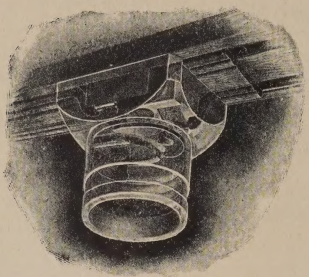
This receptacle, being all porcelain, never tarnishes nor loses its natural finish. It is made standard in size to fit regular wall boxes. Each receptacle is fitted with the dummy porcelain plug in the same finish as the receptacle itself, which replaces the attachment plug when the latter is removed. They can be furnished besides standard white finish in plain black or chocolate.

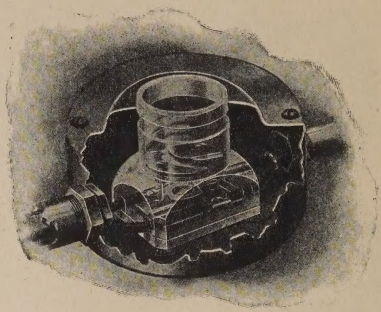
Zademi	8036	4010	White porcelain, with plug	100	.80



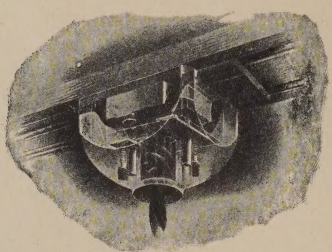
No. 8036.

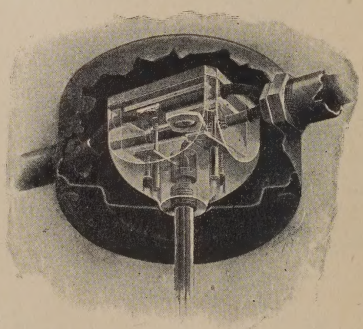
NORBITT SPECIALTIES.



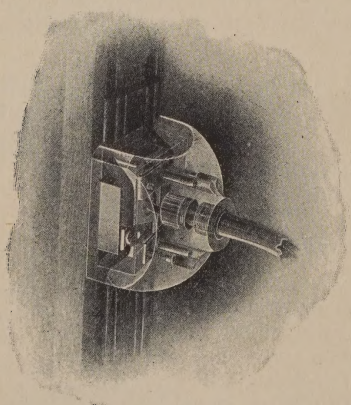


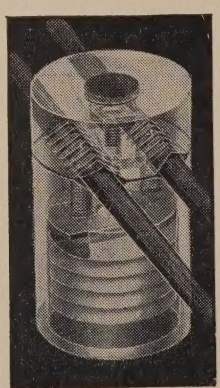
Code Word.	List No.	Mfr. No.		Std. Pck.	List Price, Per 100.
Zabixev	21249	A227	Permanent moulding receptacle.....	250	$25.00
Zabixew	21250	C227	Permanent conduit receptacle.....	250	28.00



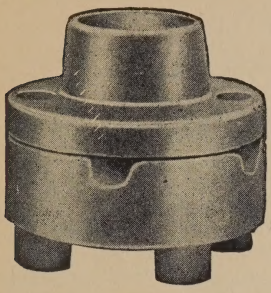


Zabixex	21251	A33½	Fuseless moulding cord rosette.....	250	18.00
Zabixey	21252	C33⅛	Fuseless conduit fixture rosette.....	250	28.00





Zabixez	21253	A33⅛	Fuseless moulding fixture rosette.....	250	22.00
Zabixi	21254	117	Temporary decorative socket.....	250	30.00
Zabixib	21255	D117	Weatherproof socket with lead wires.....	250	26.00



No. 43865.

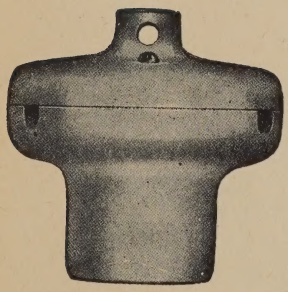
NEW CODE RECEPTACLE No. 1000.

This receptacle was the first of a series of porcelain receptacles placed on the market to meet not only the requirements of the Underwriters' Boards, but at the same time to present advantages enough to the practical wireman to warrant its use in places where the old style would not find favor; the many improvements embodied in the New Code Receptacle, No. 1000, have brought it speedily to the front as an approved, desirable, labor saving device of undoubted merit. It was designed to take the place of all open contact receptacles, similar to No. 9171, which, with their exposed terminals, unsatisfactory insulating qualities (because of center screw, etc.), have been objectionable to a majority of Underwriters' Boards. It is *the* receptacle for marine and park work.

The New Code Receptacle has the following advantages:

1. No exposed contacts.
2. Requires no soldering of wires to terminal.
3. No taping or painting after connections are made.
4. No building up on porcelain insulators.
5. Genuine phosphor-bronze spring centre contacts.
6. Genuine phosphor-bronze shells, removable from front, by simply taking out two screws.
7. Terminal screws with up-set ends.

Code Word.	List No.		Std. Pkg.	List Price Each.
Zabatuw	43865	New Code Receptacle....	250	$ .28
Zabatux	43866	N. C. Shade-holder Recep.	250	.33



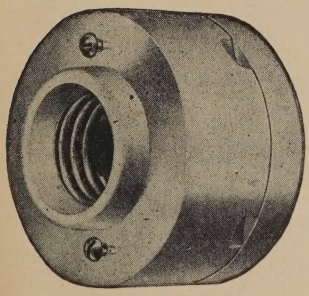
No. 46949.

NEW CODE WEATHERPROOF SOCKET No. 1010.

It has all the detail point of superiority of the No. 1000.

The circuit wires run direct *through* the socket—as shown in cut—and only require skinning of insulation where wires pass under screws, and require no cleats as "spreaders" between sockets. Cap of socket is provided with a knob, having a lateral hole, through which a small steel guy wire may be passed. This takes all strain off connections and circuit wires, and what is also most important for decorative festoon work, brings all sockets in line as gracefully as the steel cable of a suspension bridge.

Zuzud	46949	N. C. Weatherproof Socket..	250	.35
Zuzuf	46950	N. C. Shade-holder W'p'f S'k't	100	.40



No. 46951.

NEW CODE SIGN RECEPTACLE No. 1020.

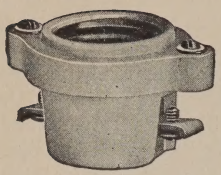
This receptacle has the same advantages over ordinary styles of sign receptacles, as the No. 1000 receptacle has over No. 9171 and other similar receptacles. From its improved form of construction it requires

No soldering.
No taping.
No compounding.

It is constructed on the same lines as the receptacles listed above.

Zuzug	46951	New Code Sign Receptacle..	250	.32

P. & S. SPECIALTIES.

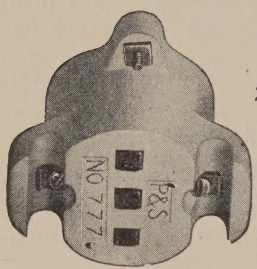


No. 9830.

SIGN RECEPTACLES.

EDISON BASE. FOR METAL.

Code Word.	List No.	Mfr. No.	Std. Pkg.	List Price, per 100.
Zacemav	9830	977	250	$17.00



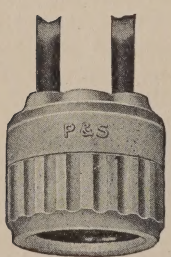
No. 9884.

Zacemaw	9884	777	250	18.00

This receptacle can be made absolutely weatherproof by running in gas fitters' cement after it is wired.

No. 9885.

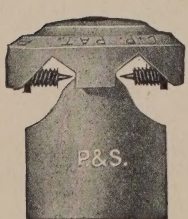
Zacemax	9885	877	250	19.00



No. 9886.

WEATHERPROOF.

Zacemay	9886	577	250	30.00



No. 9736.

TEMPORARY DECORATIVE SOCKET.

Edison Base.

Zacemaz	9736	417	250	24.00

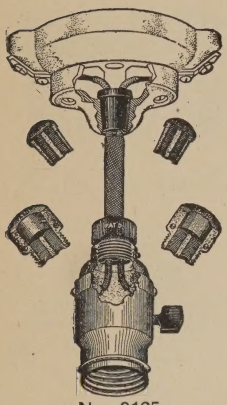
Packed 10 in a paper box.

INCANDESCENT SUPPLIES.

K.-W. ROSETTES.

With Special Caps to Accommodate "KNOSTRAIN" Cord Bushings and No. 14 Approved Portable Cord.

National Electrical Code Standard—125 Volts.



No. 9125.

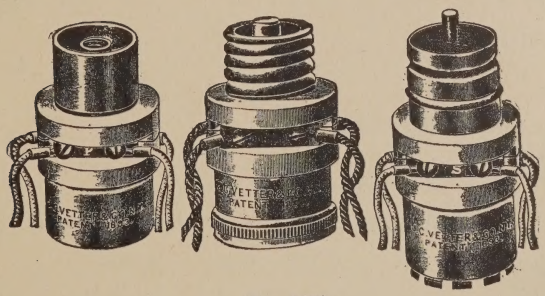
We are now prepared to supply K.-W. Rosettes fitted with special caps, designed to receive the well known "Knostrain" Cord Bushing. This same cap will also receive all makes of No. 14 Approved Portable Cord. Our regular cap, with $\frac{13}{32}$-inch hole, will receive all makes of No. 16 Approved Portable Cord, but some makes of No. 14 are larger than $\frac{13}{32}$-inch in diameter.

A standard package of Rosettes of one catalogue number may be assorted with regular and special caps.

Code Word.	List No.		Std. Pck.	List Price, Each.
Zadeyon	9125	Cleat Rosette, with stamped lugs.	250	$0.32
Zadeyop	9126	Cleat Rosette, with cast lugs.....	250	.33
Zadeyor	9127	Concealed Rosette	250	.32
Zadeyos	9128	Two wire Moulding Rosette.....	250	.32
Zadeyot	9129	Three wire Moulding Rosette.....	250	.35

Above list prices include "Knostrain" Bushing.

VETTER CURRENT TAPS.



No. 9130.

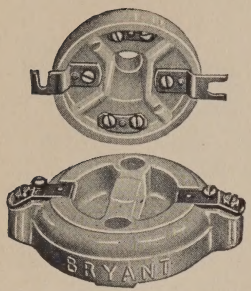
Zadeyov	9130	Series, Edison base.....	—-	1.00
Zadeyow	0131	Series, T.-H. base...	—-	1.00
Zadeyox	9132	Parallel, Edison base.....	—-	1.00
Zadeyoy	9133	Parallel, T.-H. base.....	—-	1.00

GENERAL ELECTRIC CURRENT TAPS.

No. 9134.

Zadeyoz	9134	Parallel, Edison base.....	100	.50
Zadeyu	9135	Parallel, T.-H. base.....	100	.50

BRYANT K. W. ROSETTES.

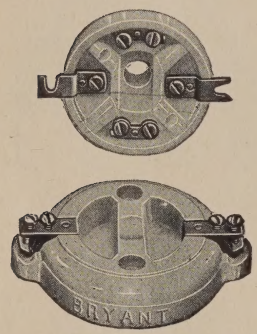


No. 950. (⅜ Full Size.)

NATIONAL ELECTRICAL CODE STANDARD.

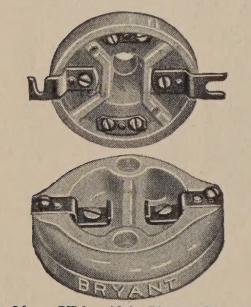
125 Volts.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadasix	950	Cleat Rosette with stamped lugs	250	$0.28



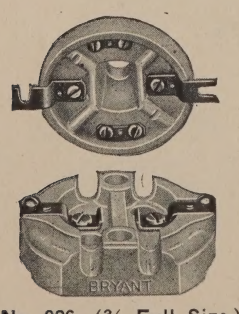
No. 870. (⅜ Full Size.)

Zadasiy	870	Cleat Rosette with cast lugs	250	.29



No. 871. (⅜ Full Size.)

Zadasiz	871	Concealed Rosette.....	250	.28

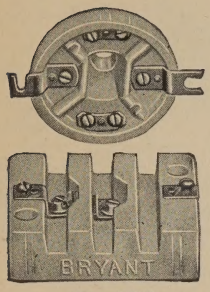


No. 926. (⅜ Full Size.)

Zadaso	926	Two wire moulding rosette.	250	.28

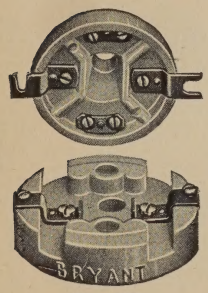
Caps are interchangeable and will fit any K.-W. Rosette Base.

BRYANT K. W. ROSETTES.



No. 1426.
(⅜ Full Size.)

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadasob	**1426**	Three wire moulding Rosette.	250	**$0.31**



No. 872.
(⅜ Full Size.)

Zadasoc	**872**	Combination Rosette.....	250	.28

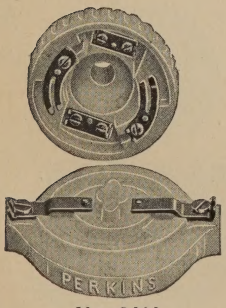
Caps are interchangeable and will fit any K.-W. Rosette Base.

THOMAS ROSETTES.

NATIONAL ELECTRICAL CODE STANDARD.

125 Volts.

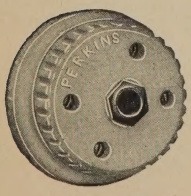
Zadasod	**3414**	Cleat	250	.26
Zadasof	**3415**	Concealed	250	.26
Zadasog	**3416**	Moulding	250	.26



No. 3414.
(⅜ Full Size.)

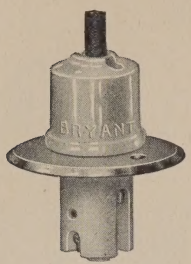
BRACKET ROSETTES.

Zadasoh	**3417**	Cleat	100	.36
Zadasok	**3418**	Concealed	100	.36
Zadasol	**3419**	Moulding	100	.36

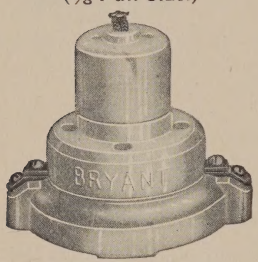


No. 3418.
(⅜ Full Size.)

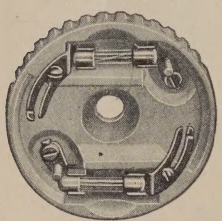
Caps are interchangeable and will fit any Thomas 125-Volt Rosette Base.



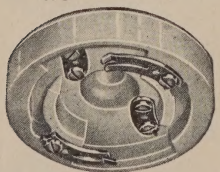
No. 1508.
(⅜ Full Size.)

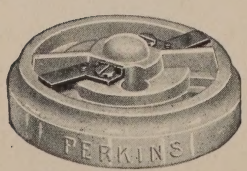


No. 1682.
(⅜ Full Size.)



No. 3423.
(⅜ Full Size.)





No. 3421.
(⅜ Full Size.)

BRYANT RECEPTACLES.

"JUNIOR" FLUSH RECEPTACLE.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadayoh	1508	Flush receptacle, with plug	25	$0.30
Zadayok	1509	Flush receptacle, only	25	.55
Zadayol	1510	Plug only	25	.25

Plate is polished nickel finish, 2 7-16 inches diameter. Supporting screw holes 1½ inches on centers.

K. W. SURFACE PLUG RECEPTACLES.

NATIONAL ELECTRICAL CODE STANDARD. 125 VOLTS.

With Plug.

Zadayom	1681	Concealed	25	.85
Zadayon	1682	Cleat	25	.85
Zadayop	1683	2-wire moulding	25	.85
Zadayor	285	3-wire moulding	25	.85
Zadayos	1684	Combination	25	.85

Without Plug.

Zadayot	1685	Concealed	25	.60
Zadayov	1686	Cleat	25	.60
Zadayow	1687	2-wire moulding	25	.60
Zadayox	286	3-wire moulding	25	.60
Zadayoy	1688	Combination	25	.60
Zadayoz	1510	Plugs for above	25	.25

Caps are interchangeable and will fit any K.-W. Rosette Base.

THOMAS 250 VOLT ROSETTES.

NATIONAL ELECTRICAL CODE STANDARD.

With Connections for Enclosed (Glass Tube) Fuses.

Zadayu	3423	Cleat	250	.30
Zadayub	3424	Concealed	250	.30
Zadayuc	3425	2-wire moulding	250	.30

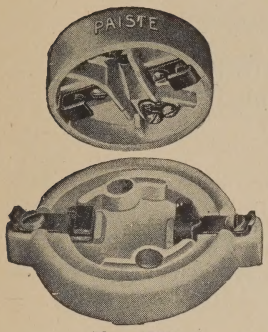
Fuses for use in these Rosettes are shown elsewhere. They are not included with the Rosettes and will not be sent unless ordered separately.

With Connections for Open Link Fuses.

Zadayud	3420	Cleat	250	.30
Zadayuf	3421	Concealed	250	.30
Zadayug	3422	Moulding	250	.30

Caps are interchangeable and will fit any Thomas 250 volt Rosette base.

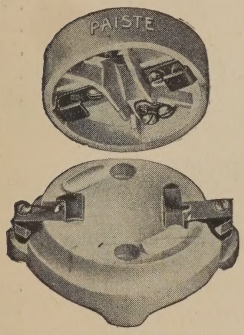
PAISTE "P-K" ROSETTES.



No. 4836.
(⅜ Full Size.)

This well-known standard rosette has now been on the market for several years, and hardly needs an introduction to the trade.

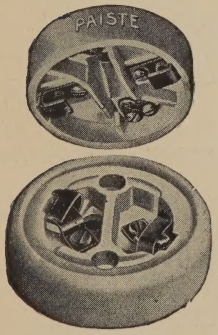
We present a new one in No. 4836, which is provided with a type of stamped line-contacts or lugs, of a type made in accordance with National Electrical Code Standard rules for cleat work.



No. 4837.
(⅜ Full Size.)

In these rosettes the quarter turn given the cap firmly holds it in place by engaging the heavy spring contact pieces. Where there is "vibration" in the building, we deem extra fastening necessary, and by running down the two set screws in the cap, the cap itself is virtually locked, and no amount of vibration can loosen it.

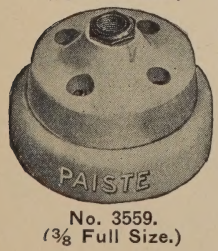
Thus in this one "P-K" rosette can be found all the requirements for a rosette to be used in every possible place.



No. 4838.
(⅜ Full Size.)

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zabicar	4836	816	Cleat, stamped lugs...	250	$0.26
Zabicas	4837	810	Cleat, cast lugs.....	250	.26
Zabicat	4838	811	Concealed base.....	250	.26
Zabicav	4839	812	Molding base.....	250	.26

The caps of these rosettes are interchangeable, and will fit any "P-K" rosette base.



No. 3559.
(⅜ Full Size.)

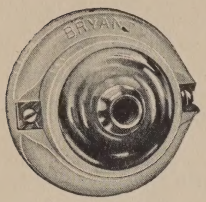
BRACKET STYLES.

The caps of these rosettes are fitted with brass bushings of standard ⅛ inch brass pipe thread, and are to be used with straight and angle nipples or small bracket fixtures.

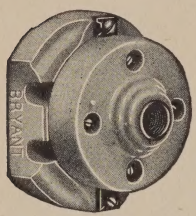
Caps are interchangeable, and will fit any "P-K" rosette base.

Zabicaw	3558	813	Cleat base.....	100	.36
Zabicax	3559	814	Concealed base.....	100	.36
Zabicay	3560	815	Molding base.....	100	.36

BRYANT ROSETTES.

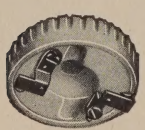


No. 873.
(⅜ Full Size.)

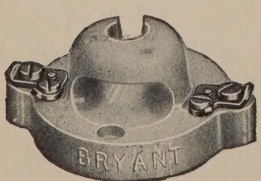


No. 1179.
(⅜ Full Size.)

No. 1501.
(⅜ Full Size.)



No. 298.
(⅜ Full Size.)



No. 1999.
(⅜ Full Size.)

K. W. BRACKET ROSETTES.

NATIONAL ELECTRICAL CODE STANDARD. 125 VOLTS.

With Brass Face Plate.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadayim	873	Concealed	100	$0.36
Zadayin	1176	Cleat	100	.36
Zadayip	1177	2-wire moulding	100	.36
Zadayir	287	3-wire moulding	100	.36
Zadayis	1402	Combination	100	.36

With Brass Thimble.

Zadayit	1073	Concealed	100	.36
Zadayiv	1178	Cleat	100	.36
Zadayiw	1179	2-wire moulding	100	.36
Zadayix	283	3-wire moulding	100	.36
Zadayiy	1403	Combination	100	.36

BRYANT "JUNIOR" ROSETTES.

FUSIBLE.

NATIONAL ELECTRICAL CODE STANDARD. 125 VOLTS.

Zadayiz	1501	Cleat	500	.15
Zadayo	1502	Concealed	500	.15
Zadayob	1503	Square base	250	.15

FUSELESS.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

Zadayoc	297	Cleat	500	.15
Zadayod	298	Concealed	500	.15
Zadayof	299	Moulding	250	.15

Caps are interchangeable and will fit any Bryant Junior Rosette Base.

FUSELESS.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

Zadayog	1999	Cleat	500	.12

BRYANT ROSETTES.

No. 869.
(⅜ Full Size.)

FUSELESS ROSETTES.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadecas	869	Fuseless Cleat Rosette....	500	$0.12

No. 1247.
(⅜ Full Size.)

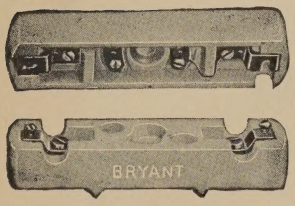
Zadecat	1247	Base for No. 869 Rosette..	500	.04

FUSIBLE CLEAT ROSETTE.

WITH COVERED CONNECTIONS.

NATIONAL ELECTRICAL CODE STANDARD. 125 VOLTS.

Zadecav	965	Cleat Rosette.....	250	.26



No. 965.
(⅜ Full Size.)

K. P. FUSELESS ROSETTES.

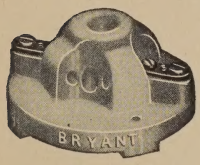
NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

Zadecaw	1499	Cleat	500	.16
Zadecax	1710	Concealed	500	.16
Zadecay	1497	Moulding	500	.16

PERKINS SWITCH ACCESSORIES.

PORCELAIN SWITCH BLOCKS, OR SUB-BASES.

NATIONAL ELECTRICAL CODE STANDARD.



No. 1499.
(⅜ Full Size.)

For Wall Sockets, Receptacles and 5 Amp. Switches.

Zadecaz	2381	For cleat work.....	100	.05
Zadece	2382	For concealed work.....	100	.05
Zadeceb	2383	For moulding work.....	100	.05

For 10 Amp. Switches.

Zadecec	2357	For cleat work.....	100	.06
Zadeced	2252	For concealed work.....	100	.06
Zadecef	2222	For moulding work.....	100	.06

For 20 and 30 Amp. Switches.

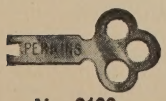
Zadeceg	2379	For cleat work.....	25	.15
Zadeceh	2380	For concealed work.....	25	.15
Zadecek	2262	For moulding work.....	25	.15

No. 2357.
(⅜ Full Size.)

For Wall Sockets, Receptacles and 5 and 10 Amp. S. P. Switches.

Zadecel	2358	For moulding work at the end of a run of moulding	100	.06

UNIVERSAL LOCK ATTACHMENT.



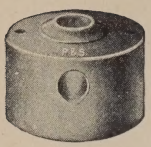
No. 2384. No. 2126.
(½ Full Size.)

Zadecem	2384	.....		.12

KEYS.

Zadecen	2126	For small rotary lock switches...		.06
Zadecep	2399	For large rotary lock switches....		.06
Zadecer	2299	For push button switches.....		.15

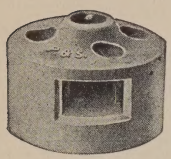
P. & S. SPECIALTIES.



No. 9734.

CEILING BUTTONS.

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price. per 100.
Zacelux	9734	70	High insulation.....	500	$4.20



No. 9735.

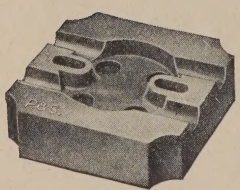
Zaceluy	9735	170	Self tying.....	500	5.80

Packed 50 in a paper box.

No. 9824.

SWITCH BACKS.

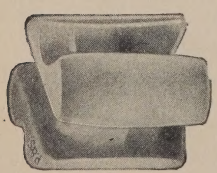
Zaceluz	9824	16	Open or concealed wiring	100	7.20



No. 9825.

Zacema	9825	17	Open, concealed or moulding wiring.....	100	7.20

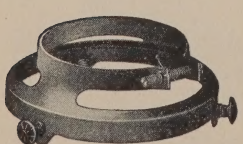
Packed 10 in a paper box.



No. 9828.

STRAIN INSULATOR.

Zacemab	9828	8	For wire ⅜ in. diam....	500	5.00
Zacemac	9829	9	For wire ½ in. diam....	300	11.00



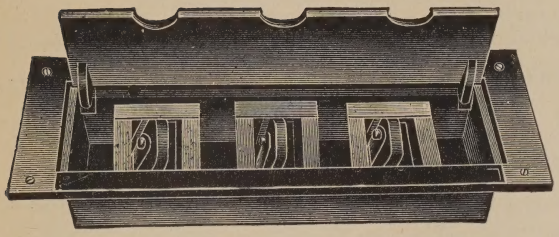
No. 9729.

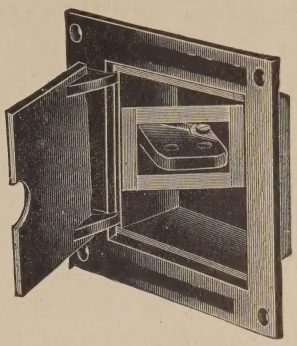
SHADE HOLDERS.

FOR PORCELAIN SOCKETS.

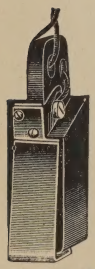
Zacemad	9729	119	2¼ inches.....	144	7.00
Zacemaf	9730	1190	3¼ inches.....	72	14.00

STAGE POCKETS.

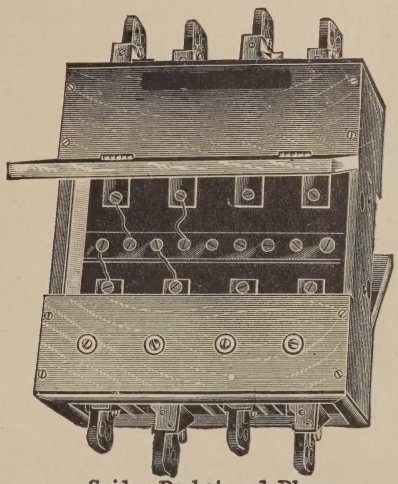




The cuts represent our newly designed Stage Pockets. These are entirely new and greatly superior to anything heretofore on the market. The casings are made of cast iron and are slate lined, so as to be absolutely fireproof. The plugs are made of red fibre. All connections are of copper. The frame fits flush into the floor and is protected by a dustproof door. The pockets are open at top and bottom, so that no dust or other objects can lodge within.



Stage Pocket Plugs.



Spider Pocket and Plugs.

The Universal Spider Pocket and Plug is made of hardwood and has six separate outlets and plugs, of which one is the feeder and the remainder the distributors for Bunch Lights, Arc Lamps or any other lights required. It can be used anywhere on the stage, and is unbreakable.

It is specially adapted for traveling companies in houses where there are no stage pockets, and is designed to obviate the splicing of wires in cases where this would otherwise be necessary to make the proper connections. We also manufacture a four plug Spider Pocket.

The Single Pocket with Plug is in general use. It is adapted for Plugging Boxes, Switchboards and Dimmers.

It is made of hardwood, and is very durable, and especially adapted for traveling companies.

Code Word.	List No.			
Aboriginal	7866	1	Gang Stage Pocket and Plug, complete.....	**Prices**
Aborigines	7867	2	Gang Stage Pocket and Plug, complete.....	**on**
Abortive	7868		Plug only	**Application.**

"DIAMOND H" RECEPTACLES.

Automatically opens for reception of plug and closes upon its withdrawal.

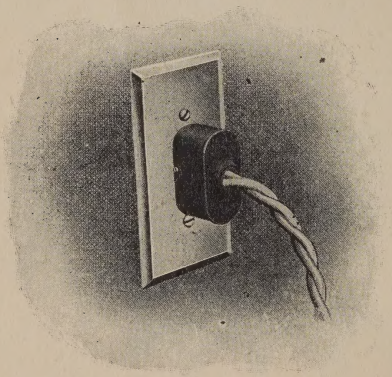
It is not necessary to open the shutter for the insertion of the plug, as it is automatically operated by the plug. The shutter cannot be left open, as it closes automatically upon removal of the plug.

One hand only is required to operate the receptacle and plug.

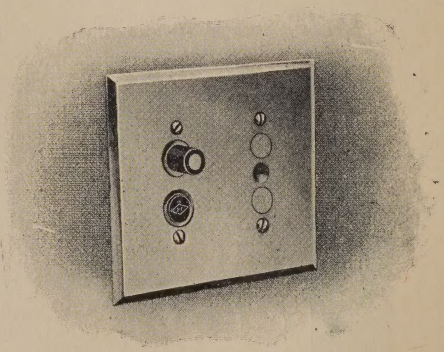
The porcelain body of the plug is encased in a finished steel shell, which prevents accidental breakage. It is impossible to produce a short circuit or a ground by the insertion of the plug.

Flush receptacles are made in gangs of any number or in gangs with "Diamond H" Push or Rotary Flush Switches.

They will fit standard wall appliances made for push button or rectangular base flush switches.



Receptable Complete.



A combination gang, as above shown, with the switch controlling the receptacle is often used.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zabuwen	13270	650	Receptacle or Plug, complete	$2,40
Zabuwep	13271	651	Plate only	1.00
Zabuwer	13272	652	Receptacle only	.76
Zabuwes	13273	653	Plug only	.64

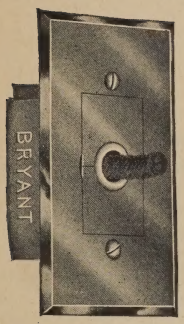
Plates correspond in size to Push Button or Rotary Flush Plates.

Gang Plates are the same price as the corresponding number of single Plates.

BRYANT RECEPTACLES.

CHAPMAN RECEPTACLES.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.



No. 1108.

(⅜ Full Size.)

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zabayew	1108	Chapman Receptacle, complete....	25	$1.85
Zabayex	1363	Chapman Gang Receptacle.....	25	.70
Zabayey	1110	Chapman Plug.....	25	.50
Zabayez	1364	Single plate for above, 4½x2¾ in..	25	.65

Outside supporting screw holes 3 9-32 inches on centers.
Inside supporting screw holes 2 13-16 inches on centers.

FLUSH PLATES FOR CHAPMAN RECEPTACLES IN GANGS.

Zabayi	1365	For two receptacles, 4½x4 9-16 in..	..	1.50
Zabayib	1366	For three receptacles, 4½x6⅜ in...	..	2.25
Zabayic	1367	For four receptacles, 4½x8 3-16 in.	..	3.00

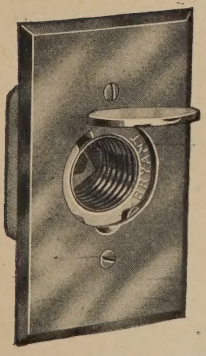
Receptacles in gangs spaced 1 13-16 inches on centers.

"OLD STYLE" CHAPMAN RECEPTACLE.

Zabayid	280	Receptacle with plug and plate....	25	1.85
Zabayif	281	Gang receptacle only.....	25	.70
Zabayig	282	Plate, only, 4½x2½ in.....	25	.65
Zabayih	283	Plug only	25	.50

Holes for supporting screws are 3 9-32 inches on centers.

Plates for mounting these receptacels in gangs will be furnished only on special order. When so mounted the receptacles will be spaced 1 13-16 inches on centers.



Nos. 1708 & 1709.

(⅜ Full Size.)

BRYANT SCREW PLUG FLUSH RECEPTACLE.

Zabayik	1708	Edison Screw Plug Gang Receptacle	25	.40
Zabayil	1709	Single plate for above, 4½x2¾ in..	25	.60

This receptacle will receive any standard Edison attachment plug and will be found useful where it is desirable to transfer a connection from a chandelier or bracket. In designing the receptacle we have embodied, so far as practicable, the features of the Chapman Receptacle.

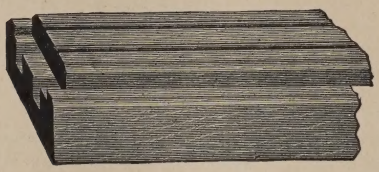
Outside supporting screw-holes 3 9-32 inches on centers.

Inside supporting screw-holes 2 13-16 inches on centers.

Plates for mounting these receptacles in gangs will be furnished only on special order. When so mounted the receptacles will be spaced 1 13-16 inches on centers.

WOOD MOULDING.

STANDARD MOULDING AND CAPPING.



Code Word.	List No.	Mker's Nos. S.	Mker's Nos. J.	Size of Groove.	No. of Groove.	Size of Wire B. & S. Gauge. Solid Single Braid.	Size of Wire B. & S. Gauge. Stranded Single Braid.	List Price, Per 1000 Ft., Painted.	List Price, Per 1000 Ft., Plain.
Zucor	45475	A 2	A 2	¼ inch	2	14 to 12	.....	$32.00	$22.00
Zucos	45476	A 4	B 1	5/16 inch	2	10 to 8	8	40.00	29.00
Zucot	45477	A 6	C 1	7/16 inch	2	6 to 4	6 to 5	49.00	36.00
Zucov	45478	A 8	D 1	9/16 inch	2	3 to 2	4 to 2	104.00	85.00
Zucow	45479	A 9	E 1	¾ inch	2	.....	1 to 3/0	140.00	111.00
Zucox	45480	A 10	F 1	⅞ inch	2	.....	4/0 to 250 MCM	182.00	140.00
Zucoz	45481	A 11	G 1	1 inch	2	.....	300 to 400 MCM	220.00	182.00
Zucu	45482	A 12	...	1¼ inch	2	.....	500 MCM	250.00	210.00
Zucub	45483	B 2	A 4	¼ inch	3	14 to 12	.....	46.00	34.00
Zucud	45484	B 4	B 3	5/16 inch	3	10 to 8	8	54.00	42.00
Zucuf	45485	B 6	C 3	7/16 inch	3	6 to 4	6 to 5	72.00	56.00
Zucug	45486	B 8	D 3	9/16 inch	3	3 to 2	4 to 2	140.00	111.00
Zucuh	45487	B 9	E 2	¾ inch	3	.....	1 to 3/0	195.00	154.00
Zucuk	45488	B 10	F 2	⅞ inch	3	.....	4/0 to 250 MCM	250.00	195.00
Zucul	45489	B 11	G 2	1 inch	3	.....	300 to 400 MCM	305.00	236.00

OAK MOULDING.

Zucum	45490	A 2	A 2	¼ inch	2	14 to 12	.....	61.00
Zucun	45491	A 4	B 1	5/16 inch	2	10 to 8	8	79.00
Zucup	45492	B 2	A 4	¼ inch	3	14 to 12	.....	85.00
Zucur	45493	B 4	B 3	5/16 inch	3	10 to 8	8	102.00

WALNUT MOULDING.

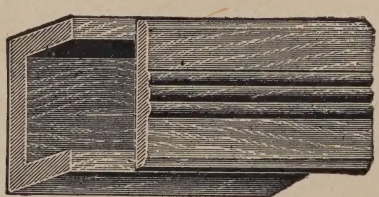
Zucus	45494	A 4	A 2	¼ inch	2	14 to 12	.....	166.00

All sizes of plain moulding carried in stock.

CAPPING.

Capping, only, for any size moulding will be furnished at one-half the list price.

CABLE MOULDING.

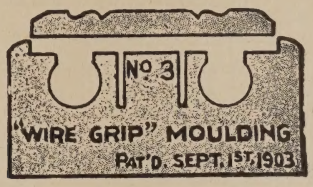


WHITE WOOD, UNPAINTED.

		Size of Slot.	
Zucut	45495	¾ inch	22.00
Zucuv	45496	1 inch	52.00
Zucuw	45497	1¼ inch	76.00
Zucux	45498	1½ inch	100.00

"WIRE GRIP" MOULDING.

Saves 50 per cent in time. Holds the wire in place. Does away with nails.



"Wire Grip" Moulding is made of approved wood and finished with a good coat of fire and water resisting White Paint, which will not rub off or deteriorate. It is also finished in water resisting oak stain.

Does away with the difficulty heretofore experienced in keeping the wires in the grooves until the capping is fastened on.

The only way of overcoming the continual falling out of the wires up to the present time has been by driving nails or tacks in the groove to hold the wire, and then pulling (?) them out as the capping is put on.

This waste of valuable time is overcome by the use of "Wire Grip" Moulding, which has the groove so shaped that it will hold the wire in place without nails or tacks until the capping is put on.

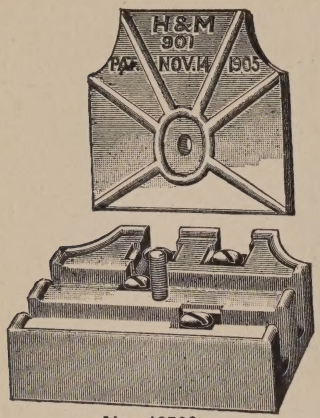
DIRECTIONS.

It is not necessary to straighten out the wire before placing it in the moulding, as the natural "kinkiness" of the wire helps it to retain its hold in the groove.

When using wires having an extra thin insulation, a few extra kinks or twists placed in the wire while it is being used will more readily cause its retention in the groove.

LIST PRICE PER 1000 FEET MOULDING AND CAPPING.

Code Word.	List No.	Mfr. No.	Grooves.	Size of Groove.	Plain Unfinished.	Painted—Fire and Water Resisting.	Oak Stain Finish Water Resisting.
Zadapey	27605	*1	1	3-16 in.	$8.00	....	....
Zadapez	27606	*2	1	¼ in.	8.00	....	....
Zadapi	27607	3	2	¼ in.	16.00	$22.00	$22.00
Zadapib	27608	4	3	¼ in.	24.00	32.00	32.00
Zadapic	27609	5	2	⅜ in.	22.00	28.00	28.00
Zadapid	27610	6	3	⅜ in.	30.00	39.00	39.00
Zadapif	27611	7	2	½ in.	26.00	34.00	34.00
Zadapig	27612	8	3	½ in.	40.00	52.00	52.00
Zadapih	27613	*10	1	¼x1 in.	17.00	....	....
Zadapik	27614	9	2	⅝ in.	60.00	75.00	75.00
Zadapil	27615	11	3	⅝ in.	80.00	100.00	100.00
Zadapim	27616	12	2	¾ in.	80.00	100.00	100.00
Zadapin	27617	13	3	¾ in.	110.00	140.00	140.00
Zadapip	27618	14	2	⅞ in.	100.00	130.00	130.00
Zadapir	27619	15	3	⅞ in.	140.00	180.00	180.00
Zadapis	27620	16	2	1 in.	130.00	160.00	160.00
Zadapit	27621	17	3	1 in.	170.00	220.00	220.00



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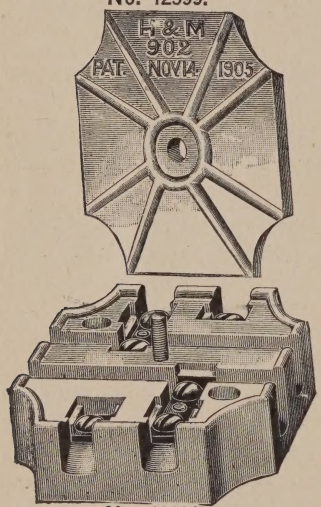

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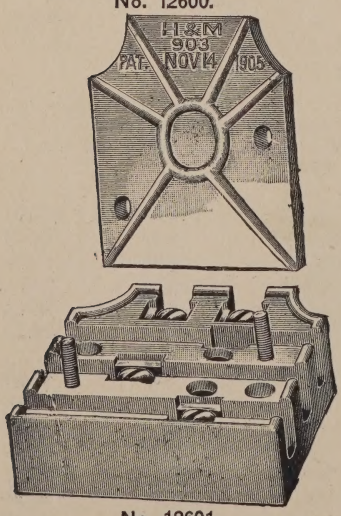


No. 12601.

MOULDING BRANCH BLOCKS.

Unnecessary to cut moulding channels. Main line installed first, branches afterwards. No soldered joints or exposed wire. Fit all standard makes of moulding. Approved for moulding and cleat work.

TWO WIRE MAIN TO SINGLE TWO WIRE BRANCH.

Code Word.	List No.	Mfr. No.	Std. Pkg.	List Price, Each.
Zabupob	12599	901	100	$0.45

TWO WIRE MAIN TO DOUBLE TWO WIRE BRANCH.

Zabupoc	12600	902	100	.75

THREE WIRE MAIN TO SINGLE TWO WIRE BRANCH.

Zabupod	12601	903	100	.80

TRHEE WIRE MAIN TO DOUBLE TWO WIRE BRANCH.

Zabupof	12602	904	50	.85

THREE WIRE MAIN TO SINGLE THREE WIRE BRANCH.

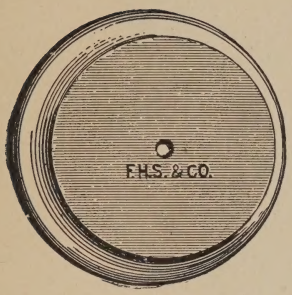
Zabupog	12603	905	50	.90

THREE WIRE MAIN TO DOUBLE THREE WIRE BRANCH.

Zabupoh	12604	906	50	1.15

All cuts one-half full size.

WOOD BLOCKS.



REGULAR.

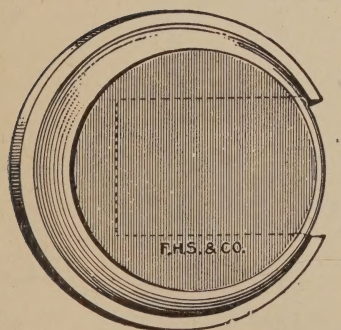
Code Word.	List No.	Face, Inches.	Back, Inches.	List Price, Each.
Zadeyiw	9046	2⅛	2⅝	$0.06
Zadeyix	9047	2½	3¼	.07
Zadeyiy	9048	3	4	.08
Zadeyiz	9049	4	5	.12
Zadeyo	9050	5	6	.16
Zadeyob	9051	6	7	.20
Zadeyoc	9052	7	8	.24

UNIVERSAL CANOPY BLOCK.

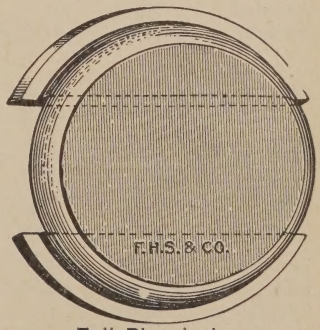
Fits Different Size Canopies.

Code Word.	List No.		List Price, Each.
Zadeyod	9053	Plain.....	$0.08
Zadeyof	9054	Finished.....	.12

PLOUGHED MOULDING BLOCKS.



Half Ploughed.



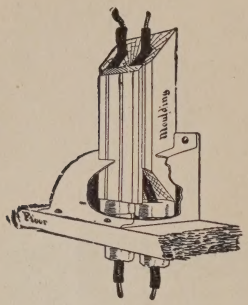
Full Ploughed.

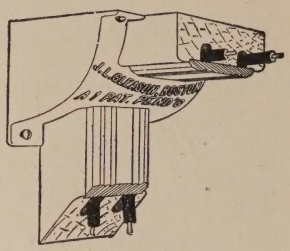
		Face.	Back.	Width of Groove.	Half or Full Ploughed, Each.
Zadeyog	9055	2½ inches.	3¼ inches.	1½ inches.	$0.08
Zadeyoh	9056	3½ inches.	4½ inches.	1½, 2⅜ and 2 inches.	.12
Zadeyok	9057	4 inches.	5 inches.	1½ or 2⅜ inches.	.16
Zadeyol	9058	5 inches.	6 inches.	1½ or 2⅜ inches.	.20
Zadeyom	9078	5 inches.	6 inches.	2 inches.	.20

1½-inch groove fits our No. 3 Moulding, 2 groove ¼ inch.
2⅜-inch groove fits our No. 4 Moulding, 3 groove ¼ inch.
2 -inch groove fits our No. 5 Moulding, 2 groove ⅜ inch.

Above are made of plain bass wood or poplar. For oak add 50 per cent. to list.

MOULDING BOXES.





STYLE A.

2 WIRE MOULDINGS.

Code Word.	List No.	No. Mfr.	Size of Grooves in Moulding in.	Number of Conductors.	Size of Wire B. & S. Gauge.	Number of Circuits.	Iron Japanned, Price Each.
Zacafar	14338	1	¼	2	14-12	1	$0.20
Zacafas	14339	2	¼	4	14-12	2	.30
Zacafat	14340	3	¼	6	14-12	3	.50
Zacafav	14341	4	¼	8	14-12	4	.65
Zacafaw	14342	11	⅜	2	10-8	1	.35
Zacafax	14343	12	⅜	4	10-8	2	.50
Zacafay	14344	13	⅜	6	10-8	3	.65
Zacafaz	14345	21	½	2	6-4	1	.50
Zacafe	14346	22	½	4	6-4	2	.70
Zacafeb	14347	31	⅝	2	2-1	1	.60
Zacafec	14348	41	¾	2	0-00	1	.70
Zacafed	14349	51	⅞	2	000	1	.80
Zacafef	14350	61	1 in.	2	0000	1	.90

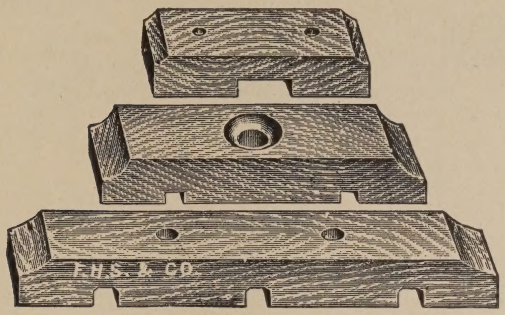
STYLE B.

3 WIRE MOULDINGS.

Zacafeg	14351	732	7/32	3	14	1	$0.30
Zacafeh	14352	732	7/32	6	14	2	.45
Zacafek	14353	1	¼	3	14-12	1	.30
Zacafel	14354	2	¼	6	14-12	2	.45
Zacafem	14355	3	¼	9	14-12	3	.60
Zacafen	14356	11	⅜	3	10-8	1	.45
Zacafep	14357	12	⅜	6	10-8	2	.60
Zacafer	14358	13	⅜	9	10-8	3	.75
Zacafes	14359	21	½	3	6-4	1	.60
Zacafet	14360	22	½	6	6-4	2	.75
Zacafev	14361	31	⅝	3	2-1	1	.65
Zacafew	14362	41	¾	3	0-00	1	.75
Zacafex	14363	51	⅞	3	000	1	.85
Zacafey	14364	61	1 in.	3	0000	1	.95

SPECIAL QUOTATIONS ON BOXES IN SHEET BRASS, ANY FINISH.

WOOD CLEATS.



Code Word.	List No.	Mfr. No.	No. of Grooves.	Size of Grooves.	List Price, per 1000.
Zadifun	28353	1316	1	3/16 inch square	$12.00
Zadifup	28354	1380	1	3/8 inch square	12.00
Zadifur	28355	1120	1	1/2 inch square	12.00
Zadifus	28356	1340	1	3/4 inch square	24.00
Zadifut	28357	1112	1	1 1/2 inch wide, 3/8 inch deep	27.00
Zadifuv	28358	2316	2	3/16 inch square	12.00
Zadifuw	28359	3316	3	3/16 inch square	16.50
Zadifux	28360	4316	4	3/16 inch square	20.00

No. 28361.

TOGGLE BOLTS.

			Per 1000.
Zadifuy	28361	3/16x3	8.00
Zadifuz	28362	3/16x4	8.50
Zadiga	28363	1/4x3	10.50
Zadigab	28364	1/4x4	11.50
Zadigac	28365	5/16x4	18.00
Zadigad	28366	5/16x5	19.00
Zadigaf	28367	3/8x5	23.00
Zadigag	28368	3/8x6	24.00

No. 28370.

WITCH-KLOTH.

Nothing but a Witch's touch could so speedily and easily remove tarnish from brass, nickel, silver and gold and give them such brilliance of polish. Equally as effective for glass, etc. The last shred is as good as the new Kloth. Made in two sizes:—

			Each.	Per Doz.
Zadigah	28369	No. 1, Witch-Kloth	.15	1.00
Zadigak	28370	No. 2 Witch-Kloth	.25	2.00

FIBRE CLEATS.

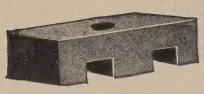
STYLE "A."

Made with Single Groove for Twin or Parallel Wires.

Dimensions:

¾ in. long, 13/32 in. wide.
¼ in. thick, ¼ x ⅛ in. groove.

Code Word.	List No.	List Price Per 1000.
Zacataz	16547	$8.60



STYLE "B."

Made with two Grooves and especially adapted for Twisted Pair Telephone Wires. Only one screw necessary to hold Cleat firmly in position.

Dimensions:

¾ in. long, 13/32 in. wide.
¼ in. thick, ⅛ x ⅛ in. groove.

Zacate	16548	9.00

STYLE "C."

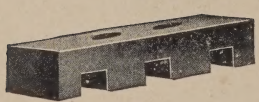
Corner Cleat. The smallest, strongest and neatest Cleat on the market.

Dimensions:

11/16 in. long, 13/32 in. wide.
¼ in. thick, ¼ x ⅛ in. groove.

Zacateb	16549	8.00

STYLE "D."

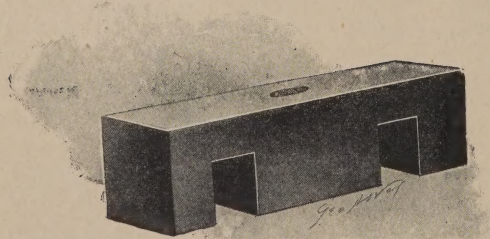


Made for three wires and takes up very little room. If installed with brass or nickel screws, makes a very pleasing appearance.

Dimensions:

1⅛ in. long, 13/32 in. wide.
¼ in. thick, ⅛ x ⅛ in. grooves.

Zacatec	16550	13.00



STYLE "E."

For fastening Electric Light Wires to Switchboards, Motor Frames, Starting Panels, Controllers, etc. Used extensively in Automobile and Storage Battery work. Replaces Metal Cleats, which in time cut the insulation from the wires.

Dimensions:

1⅝ in. long, 9/16 in. wide.
½ in. thick, ¼ x ¼ in. grooves.

Zacated	16551	30.00

WIRING SPECIALTIES.

BLAKE INSULATED STAPLES.

Designed for use on all low voltage circuits of interior wiring, such as telephone, telegraph, messenger call, annunciator and bell work. These are a standard, square-shouldered Staple, having good driving qualities. The fibre insulation on these Staples cannot come off in driving.

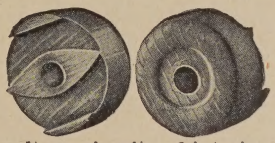
The double thickness of insulation, under the head of the Staple, gives a large surface of contact with the wire to stand mechanical strain.

The Staple can be driven over two or more wires without danger of causing a cross.

The insulation on these Staples gives an added protection from leaks on grounds on the wiring. When used in damp places it also protects the braiding on the wire from rust or corrosion of the Staple.

Code Word.	List No.		Per Package of 100.	1000 to 4000.	5000 to 9000.	10000 and Over.
Zabamav	27382	No. 1 Staples....	$0.15	$1.45 per M.	$1.40 per M.	$1.30 per M.
Zabamaw	27383	No. 3 Staples....	.15	1.45 per M.	1.40 per M.	1.30 per M.
Zabamax	27384	No. 5 Staples....	.17	1.60 per M.	1.55 per M.	1.45 per M.
Zabamay	27385	No. 7 Staples....	.17	1.60 per M.	1.55 per M.	1.45 per M.

BLAKE COMPRESSED CLEATS.



Designed for use on all low voltage circuits of interior wiring, such as telephone, telegraph, messenger call, annunciator and bell work where such circuits are run over plastering or other places where Blake Staples cannot be used.

These are compressed Cleats treated so as to be impervious to dampness and moisture.

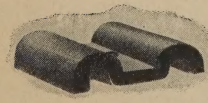
These Cleats will not break under the blow of a hammer, so that wire nails can be used as well as screws. This enables a saving to be effected in both material and labor.

Zabamaz	27386	Single packages, 100 cleats	.35
Zabame	27387	1000 to 4000, per M	2.75
Zabameb	27388	5000 to 9000, per M	2.65
Zabemec	27389	10000 to 49000, per M	2.50
Zabemed	27390	50000 and over, per M	2.40

VULCANIZED FIBRE CLEATS.

FOR INTERIOR TELEPHONE AND OTHER WIRING.

No. 1.



No. 2.

A neat, strong and durable substitute for clumsy wood and porcelain cleats.

No. 1 is designed for a single or twisted wire and can readily be used as a corner cleat.

No. 2 is adapted for twisted pair telephone wires.

Only one nail or screw necessary to secure either style firmly to woodwork. These cleats are made from the best "vulcanized fibre" in neutral green to match inside wire now in universal use; also in red, black and gray colors, and are very easily applied, cannot be broken or split, and afford excellent insulation.

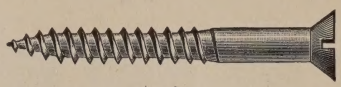
Zadesod	23521	Any color, per 1000	6.00

LEATHER NAIL HEADS.

A small leather ring or washer. For use with porcelain insulators and cleats where it is desired to fasten them with nails instead of screws.

Zadesof	23522	Per 1000	1.50

IRON WOOD SCREWS.



List of July 22, 1903. Price per Gross

1/4 Inch.

No.		$
0	@	.72
1	"	.72
10 2	"	.72
3	"	.72
4	"	.72

1 1/4 Inch.

No.		$
3	@	.88
4	"	.92
5	"	.98
6	"	1.05
7	"	1.10
10 8	"	1.15
9	"	1.20
10	"	1.30
11	"	1.40
12	"	1.55
*13	"	1.70
14	"	1.90
15	"	2.15
16	"	2.50
17	"	2.75
5 18	"	3.30
20	"	4.00
22	"	4.80
24	"	5.40

3 Inch.

No.		$
6	@	2.95
7	"	3.00
8	"	3.05
9	"	3.10
10	"	3.15
11	"	3.20
5 12	"	3.30
13	"	3.40
14	"	3.50
15	"	3.80
*16	"	4.20
1 17	"	4.80
*18	"	5.50
1/2 20	"	6.50
2 22	"	7.50
*24	"	8.70
1/2 26	"	10.50

3/8 Inch.

No.		$
0	@	.72
1	"	.72
2	"	.72
3	"	.72
4	"	.72
10 5	"	.75
6	"	.78
7	"	.82
8	"	.88
9	"	.94

1 1/2 Inch.

No.		$
3	@	.98
4	"	1.05
5	"	1.10
6	"	1.15
10 7	"	1.20
8	"	1.30
* 9	"	1.35
10	"	1.40
*11	"	1.50
12	"	1.65
13	"	1.80
14	"	2.00
15	"	2.35
16	"	2.80
5 17	"	3.20
18	"	3.80
20	"	4.30
22	"	5.10
24	"	5.90

3 1/2 Inch.

No.		$
8	@	3.90
9	"	4.00
10	"	4.10
11	"	4.20
12	"	4.30
13	"	4.40
2 1/2 14	"	4.50
15	"	4.75
16	"	4.95
17	"	5.40
18	"	6.15
* 20	"	7.30
* 22	"	8.70
1/2 24	"	10.20
26	"	12.00

1/2 Inch.

No.		$
1	@	.72
2	"	.72
3	"	.72
4	"	.75
5	"	.78
10 6	"	.80
7	"	.84
8	"	.90
9	"	.96
10	"	1.05
11	"	1.10
12	"	1.20

1 3/4 Inch.

No.		$
5	@	1.30
10 6	"	1.35
7	"	1.45
* 8	"	1.50
9	"	1.55
10	"	1.60
11	"	1.70
12	"	1.80
13	"	2.00
14	"	2.25
15	"	2.60
16	"	2.90
5 17	"	3.50
18	"	4.00
20	"	4.50
22	"	5.20
24	"	6.00

4 Inch.

No.		$
8	@	4.90
9	"	5.10
10	"	5.20
11	"	5.30
12	"	5.40
13	"	5.60
2 1/2 14	"	5.90
15	"	6.20
16	"	6.50
17	"	7.00
*18	"	7.60
20	"	8.60
22	"	9.70
1/2 24	"	11.20
26	"	14.00
28	"	16.00
30	"	18.50

5/8 Inch.

No.		$
1	@	.72
2	"	.72
3	"	.72
4	"	.75
5	"	.78
6	"	.82
10 7	"	.86
8	"	.92
9	"	.98
10	"	1.07
11	"	1.12
12	"	1.20
13	"	1.25
14	"	1.30

2 Inch.

No.		$
5	@	1.45
6	"	1.50
7	"	1.55
8	"	1.60
9	"	1.65
10	"	1.75
5 11	"	1.85
12	"	2.00
13	"	2.20
14	"	2.45
15	"	2.75
16	"	3.10
17	"	3.70
*18	"	4.20
* 20	"	4.80
1 22	"	5.50
24	"	6.40

4 1/2 Inch.

No.		$
12	@	7.00
13	"	7.20
2 1/2 14	"	7.60
15	"	7.85
16	"	8.15
*17	"	8.60
18	"	9.15
20	"	9.85
1/2 22	"	11.20
24	"	13.50
26	"	16.00
28	"	18.50
30	"	21.50

3/4 Inch.

No.		$
2	@	.72
3	"	.75
4	"	.78
5	"	.82
6	"	.85
7	"	.90
8	"	.95
10 9	"	1.00
10	"	1.10
11	"	1.15
12	"	1.25
13	"	1.35
14	"	1.50
15	"	1.65
16	"	1.80

2 1/4 Inch.

No.		$
5	@	1.55
6	"	1.60
7	"	1.65
8	"	1.75
9	"	1.85
10	"	1.95
5 11	"	2.05
12	"	2.20
13	"	2.35
14	"	2.65
15	"	3.10
*16	"	3.50
17	"	3.85
18	"	4.55
1 20	"	5.30
22	"	6.10
24	"	6.90

5 Inch.

No.		$
12	@	8.10
13	"	8.30
14	"	8.60
15	"	9.10
16	"	9.70
17	"	10.10
1/2 18	"	11.00
20	"	11.50
22	"	13.00
24	"	15.00
26	"	18.00
28	"	21.00
30	"	24.00

7/8 Inch.

No.		$
2	@	.74
3	"	.78
4	"	.82
5	"	.85
6	"	.90
7	"	.94
8	"	1.00
10 9	"	1.05
10	"	1.15
11	"	1.25
12	"	1.35
13	"	1.45
14	"	1.55
15	"	1.75
16	"	2.00

2 1/2 Inch.

No.		$
5	@	1.90
6	"	2.00
7	"	2.10
8	"	2.20
9	"	2.30
10	"	2.40
5 11	"	2.50
12	"	2.60
13	"	2.70
14	"	2.90
15	"	3.30
16	"	3.65
*17	"	4.20
*18	"	4.70
1 20	"	5.80
22	"	6.70
24	"	7.50

6 Inch.

No.		$
12	@	10.00
13	"	10.30
14	"	11.00
15	"	11.60
16	"	12.40
17	"	13.00
1/2 18	"	14.50
20	"	16.00
22	"	18.00
24	"	20.00
26	"	23.00
28	"	27.00
30	"	30.50

1 Inch.

No.		$
3	@	.80
4	"	.84
5	"	.87
6	"	.92
7	"	.98
8	"	1.05
10 9	"	1.10
10	"	1.20
11	"	1.30
12	"	1.40
13	"	1.60
14	"	1.70
15	"	2.00
*16	"	2.50
*17	"	2.70
5 18	"	2.80
20	"	3.50

2 3/4 Inch.

No.		$
6	@	2.40
7	"	2.60
8	"	2.70
9	"	2.80
10	"	2.90
11	"	3.00
5 12	"	3.10
13	"	3.20
14	"	3 30
15	"	3.60
16	"	3.90
*17	"	4.50
1 18	"	5.00
20	"	6.10
*22	"	7.20
2 1/2 24	"	8.50

*The number of Gross in a Bundle is indicated by small figures on the side, divided by a star (*).

The following varieties of Iron Screws are invoiced from this list at varying discounts: Flat, Round, Fillister and Oval Head Screws, Dowel, Winged, Headless, Pinched, Bung Head and Felloe Screws, Bright, Blued, Nickel Plated, Silver Plated, Brassed, Bronzed, Coppered, Japanned, Lacquered and Tinned, also Drive Screws.

THE STAR EXPANSION BOLT SHIELD.

An immediate expansion on entrance of bolt into anchor with a simultaneous lateral expansion which prevents any turning of shield in the hole. A recessed entrance in the shield which permits the ordinary trade bolt to penetrate beyond the regular trade thread.

WITHOUT SCREWS.

Code Word.	List No.	Diam. of Screw	No. of Threads to inch.	Price per 100 Shields.
Zuzah	46863	5/16	9	$ 9.00
Zuzak	46864	3/8	7	11.50
Zuzal	46865	1/2	6	18.00
Zuzam	46866	1/2	5	18.00
Zuzan	46867	5/8	5	22.00
Zuzap	46868	3/4	4½	30.00
Zuzar	46869	7/8	4	41.50
Zuzas	46870	1	4	51.00
Zuzat	46871	1¼	3	64.00

Dimension of Shields.

Long Standard		Short Standard	
Length	Outside Diam.	Length	Outside Diam.
2	½	1	½
2¾	5/8	2	5/8
3½	11/16	2	11/16
3½	¾	2	¾
3½	7/8	2	7/8
3½	1	2	1
5	1½	..	..
5	1½	..	..
8	1⅞	..	..

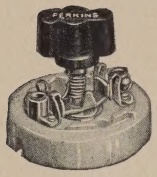
THE STAR SCREW ANCHOR.

This anchor is made in various diameters and lengths and of but one piece of composition metal. Its internal construction permits its use in combination with the regular trade wood or machine screw of any desired length. We specially recommend The Star Screw Anchor, No. 18, for the secure fastening of telephone and telegraph wires on brick and stone buildings.

			Screw.	Length Anchor.	Outside Diam.	No. in Box.	Price per 100.
Zuzeh	46881	6x½	6-7 or 8	½	¼	100	$2.10
Zuzek	46882	6x5/8	6-7 or 8	5/8	¼	100	2.10
Zuzel	46883	6x¾	6-7 or 8	¾	¼	100	2.10
Zuzem	46884	10x½	9-10 or 11	½	5/16	100	2.40
Zozen	46885	10x¾	9-10 or 11	¾	5/16	100	2.40
Zuzep	46886	10x1	9-10 or 11	1	5/16	50	2.40
Zuzer	46887	14x1	12-13 or 14	1	3/8	50	2.70
Zuzes	46888	18x1	5 16-17 or 18	1	7/16	50	3.00

Above prices are without screws. In giving your order kindly specify number of screw to be used.

PERKINS SNAP SWITCHES.



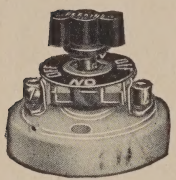
No. 2000.
(⅜ Full Size.)

5 AMPERE, SINGLE POLE.

Code Word.	List No.		Std Pkg.	List Price, Each.
Zadayuh	2000	Slotted	250	$0.32
Zadayuk	2220	Solid	250	.32
Zadayul	2047	Slotted, indicating	250	.32
Zadayum	2035	Solid, indicating	250	.32

10 AMPERE, SINGLE POLE.

Zadayun	2001	Slotted	100	.40
Zadayup	2221	Solid	100	.40
Zadayur	2048	Slotted, indicating	30	.50
Zadayus	2036	Solid, indicating	30	.50



No. 2036.
(⅜ Full Size.)

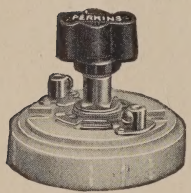
5 AMPERE, THREE-POINT.

Zadayut	2175	Solid	50	.50
Zadayuv	2027	Slotted	50	.50

10 AMPERE, THREE-POINT.

Zadayuw	2176	Solid	30	.60
Zadayux	2030	Slotted	30	.60

Lock attachment cannot be attached to any of the above switches.



No. 2173.
(⅜ Full Size.)

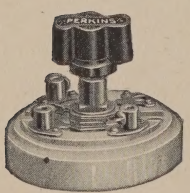
NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

5 AMPERE, SINGLE POLE.

Zadayuy	2170	Solid	100	.40
Zadayuz	2002	Slotted	100	.40
Zadaza	2254	Solid, indicating	100	.40
Zadazab	2255	Slotted, indicating	100	.40

10 AMPERE, SINGLE POLE.

Zadazac	2173	Solid	50	.48
Zadazad	2005	Slotted	50	.48
Zadazaf	2234	Solid, indicating	50	.48
Zadazag	2233	Slotted, indicating	50	.48



No. 2177.
(⅜ Full Size.)

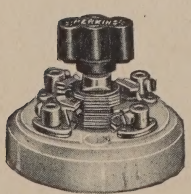
5 AMPERE, THREE-POINT.

Zadazah	2321	Solid	50	.56
Zadazak	2322	Slotted	50	.56

10 AMPERE, THREE-POINT.

Zadazan	2177	Solid	30	.66
Zadazap	2031	Slotted	30	.66

Three-point Switches are used where current is to be controlled from either of two points.



No. 2183.
(⅜ Full Size.)

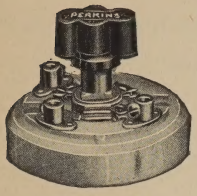
10 AMPERE, FOUR POINT.

Zadazar	2183	Solid	..	.66
Zadazas	2033	Slotted	..	.66

Four-point Switches are used in connection with two three-point Switches where current is to be controlled from any one of more than two points. A four-point Switch is installed between the three-point Switches at each additional point.

The above Switches can be converted into Lock Switches by removing the handle and substituting No. 2384, listed elsewhere.

PERKINS SNAP SWITCHES.



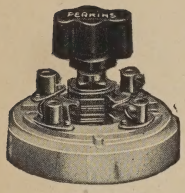
No. 2216.
(⅜ Full Size.)

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

10 AMPERE ELECTROLIER, 2 CIRCUIT.

Code Word.	List No.		Std Pkg.	List Price, Each.
Zadazat	2216	Solid	..	$0.66
Zadazav	2215	Slotted	..	.66
Zadazaw	2188	Solid, indicating	..	.66
Zadazax	2074	Slotted, indicating	..	.66

The above Switches operate as follows:
First turn connects Circuit One.
Second turn connects Circuit Two.
Third turn connects Circuits One and Two.
Fourth turn, Off.

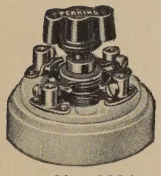


No. 2185.
(⅜ Full Size.)

10 AMPERE ELECTROLIER, 3 CIRCUIT.

Zadazay	2185	Solid	..	.66
Zadazaz	2070	Slotted	..	.66
Zadaze	2187	Solid, indicating	..	.66
Zadazeb	2072	Slotted, indicating	..	.66

The above Switches operate as follows:
First turn connects Circuit One.
Second turn connects Circuits One and Two.
Third turn connects Circuits One, Two and Three.
Fourth turn, Off.



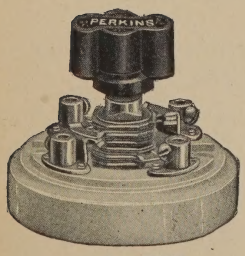
No. 2391.
(⅜ Full Size.)

5 AMPERE, DOUBLE POLE.

Zadazec	2391	Solid	100	.56
Zadazed	2392	Slotted	100	.56
Zadazef	2393	Solid, indicating	100	.56
Zadazeg	2394	Slotted, indicating	100	.56

10 AMPERE, DOUBLE POLE.

Zadazeh	2009	Solid	100	.66
Zadazek	2017	Slotted	100	.66
Zadazel	2033	Solid, indicating	100	.66
Zadazem	2050	Slotted, indicating	100	.66



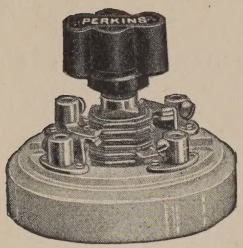
No. 2009.
(⅜ Full Size.)

20 AMPERE, DOUBLE POLE.

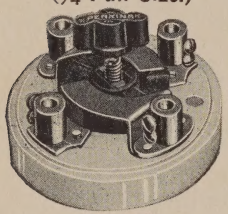
Zadazen	2011	Solid	10	1.20
Zadazep	2019	Slotted	10	1.20
Zadacer	2040	Solid, indicating	10	1.20
Zadazes	2052	Slotted, indicating	10	1.20

The above Switches can be converted into Lock Switches by removing the handle and substituting No. 2384 Universal Lock Attachment, listed elsewhere.

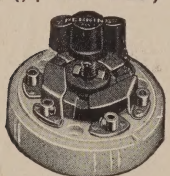
PERKINS SNAP SWITCHES



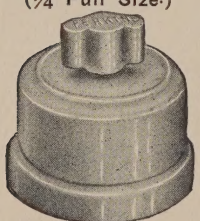
No. 2013.
(¼ Full Size.)



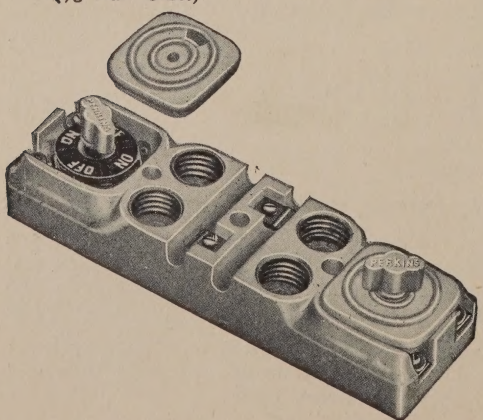
No. 2015.
(¼ Full Size.)



No. 2025.
(¼ Full Size.)



No. 2141.
(⅜ Full Size.)



NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

30 AMPERES, DOUBLE THROW.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadazet	2013	Solid	10	$1.50
Zadozev	2021	Slotted	10	1.50
Zadazew	2042	Solid, Indicating	10	1.50
Zadazex	2054	Slotted, indicating	10	1.50

50 AMPERES, DOUBLE POLE.

Zadazey	2015	Solid	..	3.00
Zadazez	2023	Slotted	..	3.00
Zadazi	2044	Solid, Indicating	..	3.00
Zadazib	2056	Slotted, Indicating	..	3.00

15 AMPERES, TRIPLE POLE.

Zadazic	2025	Solid	..	1.60
Zadazid	2046	Solid, Indicating	..	1.60

The above Switches cannot be furnished on slotted bases.

ALL PORCELAIN SWITCHES.

Zadazif	2141	10 Ampere, Single Pole	..	.64
Zadazig	2140	10 Ampere, Three Point	..	.82
Zadazih	2142	10 Ampere, Four Point	..	.82
Zadazik	2264	10 Ampere, Electrolier, 2-Circuit	..	.82
Zadazil	2263	10 Ampere, Electrolier, 3-Circuit	..	.82
Zadazim	2139	10 Ampere, Double Pole	..	.82

The above Switches cannot be furnished on slotted bases.

Zadazin	2076	10 Ampere, Double Pole, Fusible, Indicating	10	1.60

This Switch cannot be furnished on solid base.

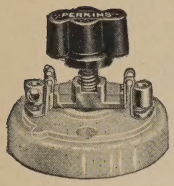
PERKINS PANEL SWITCHES.

WITH CONNECTIONS FOR PLUG FUSES.

Zadazip	2400	Double Pole, Single Branch; dimensions, 5⅞x3.	1.60
Zadazir	2300	Double Pole, Double Branch; dimensions, 9½x3.	2.25
Zadazis	2360	Triple to Double Pole, Double Branch; dimensions, 10¾x3....	3.00

Each Branch is fitted with a 10 Ampere Double Pole Indicating Snap Switch.

PERKINS SNAP SWITCHES.



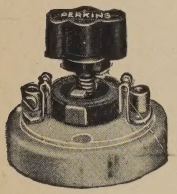
No. 2171.
(⅜ Full Size.)

600 VOLTS.

3 AMPERE, SINGLE POLE.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadeliy	2171	Solid	50	$0.40
Zadeliz	2003	Slotted	50	.40
Zadelo	2226	Solid, indicating	50	.40
Zadelob	2225	Slotted, indicating	50	.40

Lock attachments cannot be attached to the above switches.



No. 2238.
(⅜ Full Size.)

3 AMPERE, SINGLE POLE.

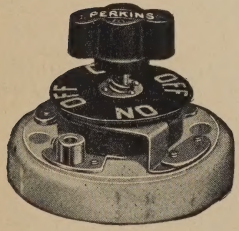
Zadeloc	2238	Solid	30	.48
Zadelod	2237	Slotted	30	.48
Zadelof	2058	Solid, indicating	30	.48
Zadelog	2064	Slotted, indicating	30	.48

No. 2049.
(⅜ Full Size.)

5 AMPERE, SINGLE POLE.

Quadruple Break.

Zadeloh	2211	Solid	20	.66
Zadelok	2212	Slotted	20	.66
Zadelol	2049	Solid, indicating	20	.66
Zadelom	2103	Slotted, indicating	20	.66

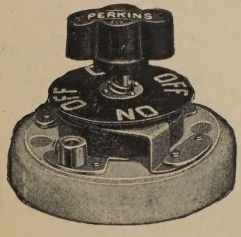


No. 2060.
(⅜ Full Size.)

10 AMPERE, SINGLE POLE.

Quadruple Break.

Zadelon	2227	Solid	50	1.50
Zadelop	2228	Slotted	50	1.50
Zadelor	2060	Solid, indicating	50	1.50
Zadelos	2066	Slotted, indicating	50	1.50



No. 2303.
(¼ Full Size.)

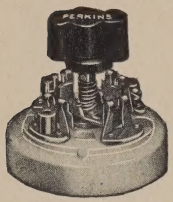
20 AMPERE, SINGLE POLE.

Quadruple Break.

Zadelot	2301	Solid	..	3.00
Zadelov	2302	Slotted	..	3.00
Zadelow	2303	Solid, indicating	..	3.00
Zadelox	2304	Slotted, indicating	..	3.00

The above Switches can be converted into Lock Switches (except where noted), by removing the handle and substituting No. 2384 Universal Lock Attachment, listed elsewhere.

PERKINS SNAP SWITCHES.



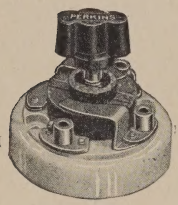
No. 2232.
(⅜ Full Size.)

600 VOLTS.

3 AMPERE, THREE POINT.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadazit	2232	Solid	30	$0.60
Zadaziv	2231	Slotted	30	.60

Lock Attachments cannot be attached to above Switches.



No. 2179.
(⅜ Full Size.)

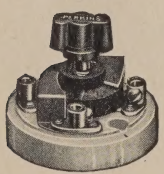
3 AMPERE, THREE POINT.

Zadaziw	2242	Solid	..	.66
Zadazix	2241	Slotted	..	.66

5 AMPERE, THREE POINT.

Zadaziy	2179	Solid	..	.66
Zadaziz	2100	Slotted	..	.66

In these Switches the commutator makes a half revolution at each operation, providing an exceptionally long and safe break.

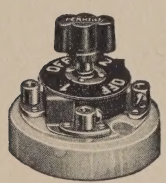


No. 2181.
(⅜ Full Size.)

3 AMPERE, TWO CIRCUIT.

Zadazo	2181	Solid	..	.66
Zadazob	2028	Slotted	..	.66
Zadazoc	2062	Solid, Indicating.....	..	.66
Zadazod	2068	Slotted, Indicating.....	..	.66

These Switches will break the circuit without the use of an additional Switch, and are especially adapted for use on street cars as Headlight Switches, and to control the interior lights, as shown in the diagrams.



No. 2062.
(⅜ Full Size.)

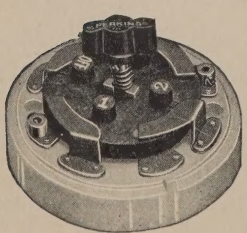
15 AMPERE, HEAT REGULATING.

Zadazof	2079	Solid, Indicating, 3-Heat...	..	3.00
Zadazog	2081	Solid, Indicating, 2-Heat...	..	3.00

These Switches are used for the regulation of heat by different combinations of the heaters.

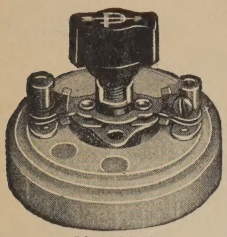
These Switches cannot be furnished on slotted bases.

The above Switches, except where noted, can be converted into Lock Switches by removing the handle and substituting No. 2384 Universal Lock Attachment, listed elsewhere.



No. 2079.
(⅜ Full Size.)

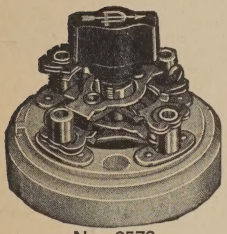
"ARROW P" SWITCHES.



No. 2570.

5 AMP. SINGLE POLE.

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zaderid	2568	6200	Open Base	252	$ .32
Zaderif	2569	6201	Open Base Indicating	252	.32
Zaderig	2570	6202	Closed Base	252	.32
Zaderih	2571	6203	Closed Base Indicating	252	.32



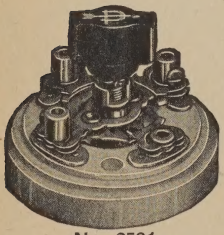
No. 2578.

10 AMP. SINGLE POLE.

Zaderik	2572	6204	Open Base	102	.40
Zaderil	2573	6205	Open Base Indicating	102	.40
Zaderim	2574	6206	Closed Base	102	.40
Zaderin	2575	6207	Closed Base Indicating	102	.40

10 AMP. DOUBLE POLE.

Zaderip	2576	6215	Open Base	102	.66
Zaderir	2577	6216	Open Base Indicating	102	.66
Zaderis	2578	6217	Closed Base	102	.66
Zaderit	2579	6218	Closed Base Indicating	102	.66



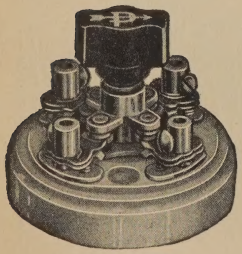
No. 2581.

5 AMP. THREE-POINT.

Zaderiv	2580	6225	Open Base	54	.50
Zaderiw	2581	6226	Closed Base	54	.50

10 AMP. THREE-POINT.

Zaderix	2582	6229	Open Base	30	.60
Zaderiy	2583	6230	Closed Base	30	.60



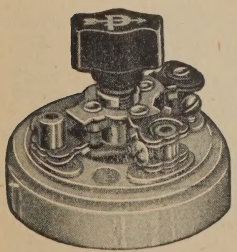
No. 2585.

10 AMP. FOUR-POINT.

Zaderiz	2584	6231	Open Base	—	.66
Zadero	2585	6232	Closed Base	—	.66

10 AMP. TWO CIRCUIT.

Zaderob	2586	6233	Open Base	—	.66
Zaderoc	2587	6234	Open Base Indicating	—	.66
Zaderod	2588	6235	Closed Base	—	.66
Zaderof	2589	6236	Closed Base Indicating	—	.66



No. 2588.

10 AMP. THREE CIRCUIT.

Zaderog	2590	6237	Open Base	—	.66
Zaderoh	2591	6238	Open Base Indicating	—	.66
Zaderok	2592	6239	Closed Base	—	.66
Zaderol	2593	6240	Closed Base Indicating	—	.66

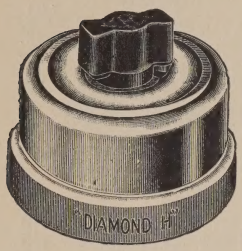
SPECIAL FINISHES FOR SURFACE SWITCHES.

For Surface Switches in special finishes add to list price 10 cents.

Note.—All finishes on Surface Switches are special except Polished Nickel.

"DIAMOND H" SWITCHES.

STANDARD SWITCHES.



Standard Switch.

Spring Adjusting Handles, removable Indicating Dial, hardened and tempered steel for working post-spring. Phosphor Bronze Knife Contacts. Solid Sheet Mica Insulation.

5 AMP. S. P., 220 VOLTS.

Code Word.	List No.	Mfr. No.		List Price, Each.
Sab	13121	220	Closed Base	$0.48
Sabar	13122	2200	Open Base	.48
Sobar	13123	D220	Dial, Closed Base	.48
Sadar	13124	D2200	Dial, Open Base	.48
Sodar	13125		Above, with lock attachment	.72

5 AMP. D. P., 220 VOLTS.

Standard Dial Switch.

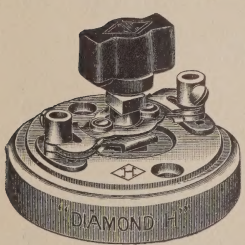
Saladi	13126	122	Closed Base	.84
Solidi	13127	1220	Open Base	.84
Soluri	13128	D122	Dial, Closed Base	.84
Solumi	13129	D1220	Dial, Open Base	.84
Solupi	13130		Above, with lock attachment	1.08

10 AMP. S. P., 220 VOLTS.

Sabaki	13131	221	Closed Base	.60
Sobat	13132	2210	Open Base	.60
Sadiga	13133	D221	Dial, Closed Base	.60
Sodargen	13134	D2210	Dial, Open Base	.60
Sodarg	13135		Above, with lock attachment	.84

10 AMP. D. P., 220 VOLTS.

Sabara	13136	222	Closed Base	1.08
Sobrarbe	13137	2220	Open Base	1.08
Sadat	13138	D222	Dial, Closed Base	1.08
Soden	13139	D2220	Dial, Open Base	1.08
Sodeni	13140		Above, with lock attachment	1.32



No. 13122.

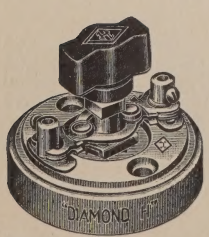
10 AMP. 3-WAY, 220 VOLTS.

Sabaya	13141	223	Closed Base	1.08
Sobotka	13142	2230	Open Base	1.08
Soboti	13143		Above, with lock attachment	1.32

10 AMP. 4-WAY, 220 VOLTS.

Sabiner	13144	224	Closed Base	1.08
Sobral	13145	2240	Open Base	1.08
Sobrali	13146		Above, with lock attachment	1.32

10 AMP. 2 POINT ELECTROLIER, 1, 1 AND 2, 1, "OFF."



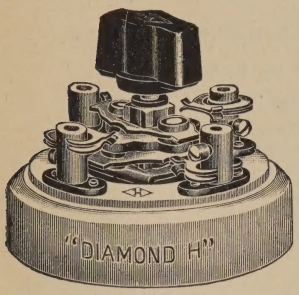
No. 13131.

Sabrei	13147	225	Closed Base	1.08
Sobraon	13148	2250	Open Base	1.08
Sadan	13149	D225	Dial, Closed Base	1.08
Sodom	13150	D2250	Dial, Open Base	1.08
Sodop	13151		Above, with lock attachment	1.32

10 AMP. 3 POINT ELECTROLIER, 1, 1 AND 2, 1, 2 AND 3, "OFF."

Sabna	13152	226	Closed Base	1.08
Sobrado	13153	2260	Open Base	1.08
Sadek	13154	D226	Dial, Closed Base	1.08
Sodring	13155	D2260	Dial, Open Base	1.08
Sodrink	13156		Above, with lock attachment	1.32

"DIAMOND H" SWITCHES.



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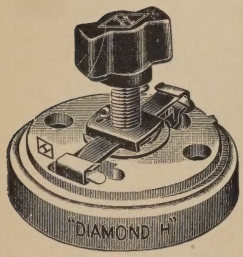

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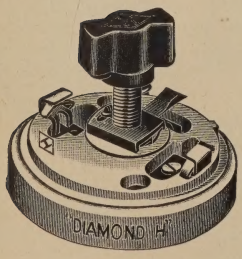

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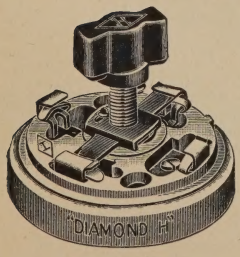


No. 13183.

STANDARD SWITCHES.

20 AMP. S. P., 220 VOLTS.

Code Word.	List No.	Mfr. No.		List Price, Each.
Sarno	13157	321	Closed Base	$ 1.20
Soria	13158	3210	Open Base	1.20
Saron	13159	D321	Dial, Closed Base	1.20
Sorkun	13160	D3210	Dial, Open Base	1.20
Sorrunp	13161		Above, with lock attachment	1.44

20 AMP. D. P., 220 VOLTS.

Saret	13162	322	Closed Base	1.44
Soran	13163	3220	Open Base	1.44
Sargasso	13164	D322	Dial, Closed Base	1.44
Sotag	13165	D3220	Dial, Open Base	1.44
Sotagi	13166		Above, with lock attachment	1.68

35 AMP. S. P., 220 VOLTS.

Sarifa	13167	421	Closed Base	1.44
Soton	13168	4210	Open Base	1.44
Sarisn	13169	D421	Dial, Closed Base	1.44
Sobba	13170	D4210	Dial, Open Base	1.44
Sobbak	13171		Above, with lock attachment	1.68

35 AMP. D. P., 220 VOLTS.

Saros	13172	422	Closed Base	1.80
Sosary	13173	4220	Open Base	1.80
Sarzeh	13174	D422	Dial, Closed Base	1.80
Sotage	13175	D4220	Dial, Open Base	1.80
Sotagis	13176		Above, with lock attachment	2.04

500 VOLT SWITCHES.

5 AMP. S. P., 500 VOLTS.

Strati	13177	501	Closed Base	.60
Stroma	13178	5010	Open Base	.60
Stradone	13179	D501	Dial, Closed Base	.60
Strontian	13180	D5010	Dial, Open Base	.60

5 AMP. 3-WAY, 500 VOLTS.

Strau	13181	503	Closed Base	1.08
Stronsa	13182	5030	Open Base	1.08

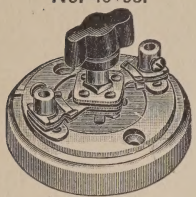
5 AMP. 2 CIRCUITS (ALTERNATELY), 500 VOLTS.

Straub	13183	506	Closed Base	1.08
Stromo	13184	5060	Open Base	1.08
Strehla	13185	D506	Dial, Closed Base	1.08
Struga	13186	D5060	Dial, Open Base	1.08

5 AMP. 3 CIRCUITS (IN SUCCESSION), 500 VOLTS.

Straden	13187	507	Closed Base	1.08
Stromstad	13188	5070	Open Base	1.08
Strengen	13189	D507	Dial, Closed Base	1.08
Stryn	13190	D5070	Dial, Open Base	1.08

No. 49193.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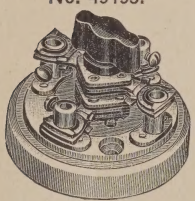
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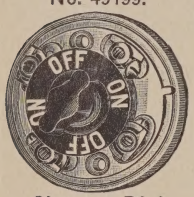
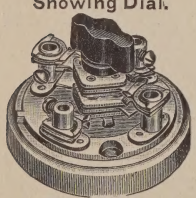


Showing Dial.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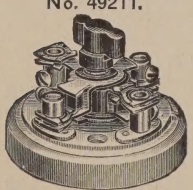

No. 49217.

No. 49189.

H. AND H. SWITCHES.

STANDARD SWITCHES.

FITTED WITH THE SELF ADJUSTING HANDLE.

Single Pole—For Circuits up to 250 Volts.

5 Ampere.

Schedule B.

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zabaxer	49191	20	Closed base, plain.....	102	$0.40
Zabaxes	49192	120	Open base, plain.....	102	.40
Zabaxet	49193	220	Close base, indicating.....	102	.40
Zabaxev	49194	320	Open base, indicating.....	102	.40

10 Ampere.

Zabaxew	49195	21	Closed base, plain.....	102	.55
Zabaxex	49196	121	Open base, plain.....	102	.55
Zabaxez	49197	221	Closed base, indicating.....	102	.55
Zabaxi	49198	321	Open base, indicating.....	102	.55

Indicating Switches, closed base, are sent unless otherwise specified. Switches packed 6 in box.

Double Pole—For Circuits up to 250 Volts.

10 Ampere.

Zabaxib	49199	22	Closed base, plain.....	102	.76
Zabaxid	49200	122	Open base, plain.....	102	.76
Zabaxif	49201	222	Closed base, indicating.....	102	.76
Zabaxig	49202	322	Open base, indicating.....	102	.76

20 Ampere.

Zabaxih	49203	32	Closed base, plain.....	24	1.20
Zabaxik	49204	132	Open base, plain.....	24	1.20
Zabaxil	49205	432	Closed base, indicating.....	24	1.20
Zabaxim	49206	532	Open base, indicating.....	24	1.20

35 Ampere.

Zabaxin	49207	42	Closed base, plain.....	12	1.60
Zabaxip	49208	142	Open base, plain.....	12	1.60
Zabaxir	49209	442	Closed base, indicating.....	12	1.60
Zabaxis	49210	542	Open base, indicating.....	12	1.60

Indicating Switches, closed base, are sent unless otherwise specified.

Three-Way—For Circuits up to 250 Volts.

Zabaxit	49211	23	10 amp. closed base.....	54	.76
Zabaxiv	49212	123	10 amp. open base.....	54	.76
Zabaxiw	49213	33	20 amp. closed base.....	12	1.20
Zabaxix	49214	133	20 amp. open base.....	12	1.20
Zabaxiz	49215	43	35 amp. closed base.....	12	1.60
Zabaxo	49216	143	35 amp. open base.....	12	1.60

Cannot be made indicating.

Three-way Switches are used for controlling a group of lights from either one of two points, one switch being located at each point.

Wiring diagram sent on request.

FOUR-WAY, OR COMMUTATION SWITCH.

For Circuits up to 250 Volts.

Zabaxob	49217	24	10 amp. closed base.....	12	.86
Zabaxod	49218	124	10 amp. open base.....	12	.86

Cannot be made indicating.

A four-way or commutation switch is used in connection with two three-way switches for controlling a group of lights from three points. This number may be increased indefinitely by connecting in a four-way switch between the two three-way switches at each additional point desired.

Wiring diagram sent on request.

NUTMEG SWITCH.

Schedule A.

Zadeluz	49189	219	5 amp. S. P. concealed base..	252	.32
Zadema	49190	319	5 amp. S. P. open base.....	252	.32

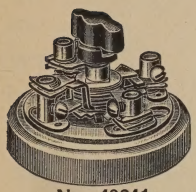
H. AND H. SWITCHES.

TWO-SECTION ELECTROLIER SWITCHES.

For Controlling the Lights on an Electrolier in Two Sections.

For Circuits up to 250 Volts.

10 Ampere. Schedule B.



No. 49241.

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zabaxul	49241	29	Closed base, plain.....	12	$0.86
Zabaxum	49242	129	Open base, plain.....	12	.86
Zabaxun	49243	229	Closed base, indicating.....	12	.86
Zabaxup	49244	329	Open base, indicating.....	12	.86

Description with Wiring Diagram sent on request.

THREE-SECTION ELECTROLIER SWITCHES.

For Controlling Lights on an Electrolier in Three Sections.

For Circuits up to 250 Volts.

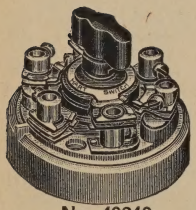
10 Ampere.

Zabaxur	49245	25	Closed base, plain.....	12	.86
Zabaxus	49246	125	Open base, plain.....	12	.86
Zabaxut	49247	225	Closed base, indicating.....	12	.86
Zabaxuv	49248	325	Open base, indicating.....	12	.86

Description with Wiring Diagram sent on request.

TRIPLE POLE SWITCH.

For Circuits up to 250 Volts.



No. 49249.

10 Ampere.

Zabaxuw	49249	26	Closed base, plain.....	12	2.00
Zabaxux	49250	126	Open base, plain.....	12	2.00
Zabaxuz	49251	226	Closed base, indicating.....	12	2.00
Zabaza	49252	326	Open base, indicating.....	12	2.00

20 Ampere.

Zabazab	49253	36	Closed base, plain.....	12	2.20
Zabazad	49254	136	Open base, plain.....	12	2.20
Zabazaf	49255	436	Closed base, indicating.....	12	2.20
Zabazag	49256	536	Open base, indicating.....	12	2.20

35 Ampere.

Zabazah	49257	46	Closed base, plain.....	12	2.60
Zabazak	49258	146	Open base, plain.....	12	2.60
Zabazal	49259	446	Closed base, indicating.....	12	2.60
Zabazam	49260	546	Open base, indicating.....	12	2.60

Indicating switches are sent unless otherwise ordered.

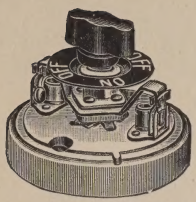
SPECIAL SWITCHES.

A great variety of connections is possible by various combinations of the contacts and switch-plates of the switches shown in this catalogue. If we are given a clear idea of what is required of a special switch, we can usually furnish one which will make the desired connections.

FAN MOTOR SWITCHES.

We make a variety of special switches for use with fan motors, allowing one, two or three speeeds.

H. AND H. SWITCHES.



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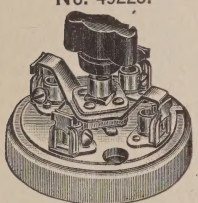
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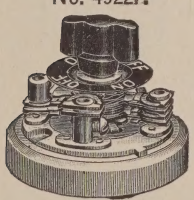
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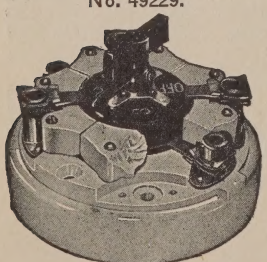
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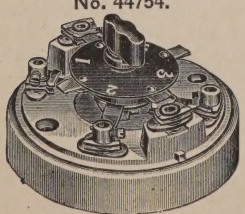

No. 44755.

500 VOLT STANDARD SWITCHES.

Single Pole. Schedule C.

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zabaxof	49219	20½	Closed base, plain, 3 Amp. S. P.	102	$0.60
Zabaxog	49220	120½	Open base, plain, 3 Amp. S. P.	102	.60
Zabaxoh	49221	220½	Closed base, indicating, 3 Amp. S. P.	102	.60
Zabaxok	49222	320½	Open base, indicating, 3 Amp. S. P.	102	.60
Zabaxol	49223	21½	Closed base, plain, 10 Amp. S. P.	51	1.20
Zabaxom	49224	121½	Open base, plain, 10 Amp. S. P.	51	1.20
Zabaxon	49225	221½	Closed base, indicating, 10 Amp. S. P.	51	1.20
Zabaxop	49226	321½	Open base, indicating, 10 Amp. S. P.	51	1.20

Larger 500 Volt S. P. switches may be made up to order by using our heater switch bases and mechanism.

All 500 Volt switches, except three-way, are sent with indicating dial unless otherwise ordered.

THREE-WAY. TWO-CIRCUIT.

Two-Circuit Switch.

This switch is especially designed for lights on electric cars, where there are four lights inside and one at each end, outside the car. The four inside lights, together with one end light, are turned "on" or "off" successively by the first two quarter turns of the handle. The next two quarter turns of the handle turn "on" and "off" successively the inside lights and the other end light.

Zabaxor	49227	23½	1 Amp. 3-Way, closed base.	102	.70
Zabaxos	49228	123½	1 Amp. 3-Way, open base..	102	.70
Zabaxot	49229	27	3 Amp. 2-Circuit, closed base, plain	54	.76
Zabaxov	49230	127	3 Amp. 2-Circuit, open base, plain	54	.76
Zabaxow	49231	227	3 Amp. 2-Circuit, closed base, indicating	54	.76
Zabaxox	49232	327	3 Amp. 2-Circuit, open base, indicating	54	.76

Two-Circuit Switches of greater capacity can be furnished on order.

500 VOLT HEATER SWITCHES.

FOR CONTROLLING ELECTRIC HEATERS IN SECTIONS.

Gives Three Degrees of Heat, 1-2-3-off, and can be Turned in Either Direction.

No. 62—The mechanism of this switch is of an entirely different dsign from our regular line of snap switches, the parts being made from heavy bronze castings, carefully machined. The switch will snap in either direction, so that in turning from "1" to "offff" it is not necessary to turn over points 2 and 3. It is provided with a double indicating device, as shown in cut, for showing number of heater sections in circuit, first by means of an indicating dial which shows through the cover, and second by means of a pointer attached to the metal handle, which points to a number on the cover, indicating the degree of heat.

Special connections can readily be made on the above base by different arrangements of contacts and switch plates.

Schedule D.

Zoteh	44754	62	35 Ampere	10.00

Schedule C.

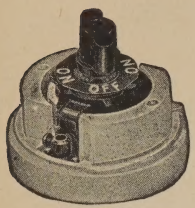
Zotek	44755	800	15 Ampere	3.00

Gives three degrees of heat. Can be turned only in one direction.

Special connections can readily be made on the above base by different arrangements of the contacts and switch plates.

H. AND H. SWITCHES.

500 VOLT BARRIER SWITCHES.

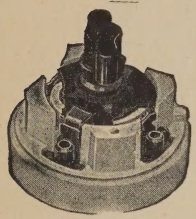


No. 49233.

The switches illustrated herewith are furnished with a barrier of porcelain to assist in breaking the circuit. The switch-plate passes through a narrow slot and the air space is so small that it is impossible for the spark to follow.

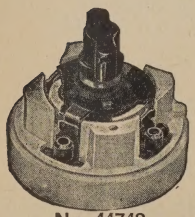
5 Amp. Single Pole. Schedule D.

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zabaxoz	49233	50½	Closed base, plain cover...	102	$0.70
Zabaxu	49234	150½	Open base, plain cover.....	102	.70
Zabaxub	49235	250½	Closed base, indc. cover....	102	.70
Zabaxud	49236	350½	Open base, indc. cover.....	102	.70


No. 49237.

5 Amp. 3-Way.

Zabaxuf	49237	53½	Closed base, plain cover....	102	.90
Zabaxug	49238	153½	Open base, plain cover.....	102	.90

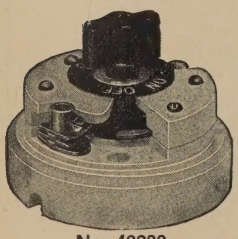

No. 44748.

5 Amp. 2 Circuit Switch.

Zotaz	44748	57	Closed base, plain cover.....	54	1.10
Zote	44749	157	Open base, plain cover.....	54	1.10
Zoteb	44750	257	Closed base, indc. cover.....	54	1.10
Zoted	44751	357	Open base, indc. cover.....	54	1.10

20 Amp. Single Pole.

Zabaxuh	49239	441½	Closed base, indc. cover....	50	1.70
Zabaxuk	49240	541½	Open base, indc. cover.....	50	1.70


No. 49239.

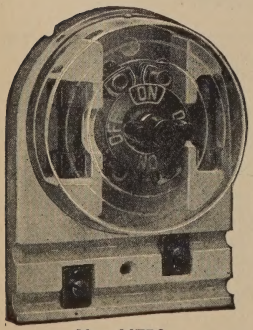
20 Amp. 2 Circuit Switch.

This is accomplished by placing a Binding Screw on the side of the base connecting with the center of the switch.

Zotef	44752	247	Closed base, indc. cover....	50	1.85
Zoteg	44753	347	Open base, indc. cover.....	50	1.85

THE COMBINED SNAP SWITCH AND CUT-OUT.

Made in 10 Amp. Only. 250 Volts.



No. 44756.

It consists of a Standard Hart Double Pole Switch, mounted on a suitable porcelain base, in connection with two cartridge fuses, all encased under one cover. The terminal clips into which the supply wires are placed are outside the cover.

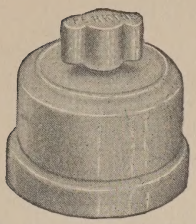
The switch is furnished either with or without the fuses.

In factories and mills, and for general work where switches and cut-outs cannot be readily centralized, its use will be most economical, effecting a saving in wire and cabinets.

Schedule L.

Zotel	44756	1022	Without fuse.....	25	1.70
Zotem	44757		Fuses, each, net.....	..	.07½
Zoten	44758	1022B	Arranged for 3-wire construction, used in pairs, without fuse, each.....	25	1.70

BRYANT SWITCHES.



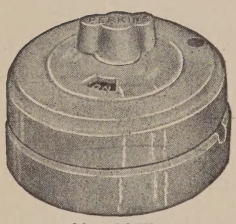
No. 2265.
(⅜ Full Size.)

PORCELAIN CAP SWITCHES.

600 VOLTS.

Code Word	List No.		Std. Pkg.	List Price, Each.
Zadehoy	2265	3 Ampere, Single Pole..... (Same movement as No. 2171.)	..	$0.64
Zadehoz	2266	3 Ampere, Single Pole..... (Same movement as No. 2238.)	..	.72
Zadehu	2267	5 Ampere, Single Pole..... (Same movement as No. 2211.)	..	.82
Zadehub	2268	3 Ampere, Three Point..... (Same movement as No. 2232.)	..	.76
Zadehuc	2269	3 Ampere, Three Point..... (Same movement as No. 2242.)	..	.82
Zadehud	2272	5 Ampere, Three Point..... (Same movement as No. 2179.)	..	.82
Zadehuf	2273	3 Ampere, Two Circuit..... (Same movement as No. 2181.)	..	.82

The above Switches cannot be furnished on solid bases.



No. 2077.
(⅜ Full Size.)

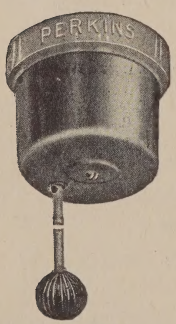
PORCELAIN CAP, FUSIBLE SWITCHES.

600 VOLTS.

Zadehug	2077	3 Amp., S. P., indicating....	10	1.60
Zadehuh	2277	3 Amp., S. P., indicating, Brown Porcelain.....	10	1.60

These are quadruple break Switches.

Zadehuk	2078	3 Amp., 2-Circuit.....	10	1.60
Zadehul	2278	3 Amp., 2-Circuit, Brown Porcelain	10	1.60



No. 2387.
(⅜ Full Size.)

CEILING OR PULL SWITCH.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

Zadehum	2387	Single Pole, concealed.....	..	1.00
Zadehun	2309	Single pole, slotted.....	..	1.00
Zadehup	2388	Three Point, concealed.....	..	1.18
Zadehur	2310	Three Point, slotted.....	..	1.18
Zadehus	2389	Four Point, concealed.....	..	1.18
Zadehut	2311	Four Point, slotted.....	..	1.18
Zadehuv	2390	Electrolier, 2-Circuit, concealed..	..	1.18
Zadehuw	2312	Electrolier, 2-Circuit, slotted.....	..	1.18
Zadehux	2395	Electrolier, 3-Circuit, concealed..	..	1.18
Zadehuy	2313	Electrolier, 3-Circuit, slotted.....	..	1.18
Zadehuz	2396	Double Pole, concealed.....	..	1.18
Zadeka	2314	Double Pole, slotted.....	..	1.18

Each Switch supplied with 6 feet of best quality braided linen cord.

PENDANT SWITCHES.

No. 2359.
(½ Full Size.)

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

(Underwriters' rating, 6 amp., 125 volts; 3 amp., 250 volts.)

Zadekab	2359	10 Amp., S. P., with 13-32 in. bushing	100	.80
Zadekac	2353	10 Amp., S. P., with ⅛ in....	100	.80
Zadekad	2354	10 Amp., S. P., with ⅜ in....	100	.90

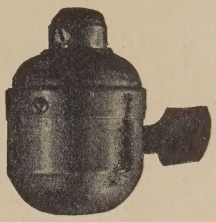
FIBRE LINED—250 VOLTS.

Zadekaf	2370	5 Amp., S. P., ⅛ in., with 13-32 in. bushing.....	100	.50
Zadekag	2250	5 Amp., S. P., ⅛ in.....	100	.50
Zadekah	2270	5 Amp., S. P., ⅜ in.....	100	.60
Zadekak	2369	10 Amp., S. P., ⅛ in., with 13-32 in. bushing.....	100	.80
Zadekal	2251	10 Amp., S. P., ⅛ in.....	100	.80
Zadekam	2271	10 Amp., S. P., ⅜ in.....	100	.90

G. E. PENDANT SWITCHES.

No. 23775.

No. 23777.



No. 23779.

3 AMPERES, 125 VOLT.

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zacilol	23775	50712	With ⅛ in. nozzle	100	$0.50
Zacilom	23776	38647	With ⅜ in. nozzle	100	.60

1½ AMPERES, 220 VOLT. 6 AMPERES, 110 VOLT. DOUBLE BREAK.

Zacilon	23777	50725	With ⅛ in. nozzle	100	.80
Zacilop	23778	35249	With ⅜ in. nozzle	100	.90

KEY PENDANT SWITCH.

Zacilor	23779	28841	1 ampere, 250 volt	100	.35

PARTS.

Zacilos	23780	19093	Contact push button for Nos. 23777 and 23778	.08
Zacilot	23781	19094	Releasing push button for No. 23777	.02
Zacilov	23782	19095	Contact push button for Nos. 23775 and 23776	.04
Zacilow	23783	19096	Releasing push button for No. 23775	.02

DOUBLE PUSH-BUTTON PENDANT SWITCH.

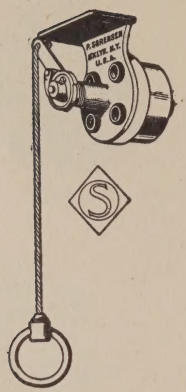
No. 23784.

All working parts of this switch are carefully designed and the greatest care is exercised in the assembling, resulting in a switch with smooth and easy action. This switch has a positive, quick make-and-break movement with knife-blade contact which operates by means of two buttons in the bottom—a miniature flush pocket switch movement, perfect in every detail. The buttons are finished differently in order that a person may tell at a glance or by the touch whether the current is on or off. The switch is small, compact, and cannot get out of order. The standard finish is polished brass; other finishes can be furnished on special order.

5 AMPERES, 250 VOLT. 10 AMPERES, 125 VOLT.

Zacilox	23784	42862	Two button push	100	.80

SORENSEN CEILING SWITCH.



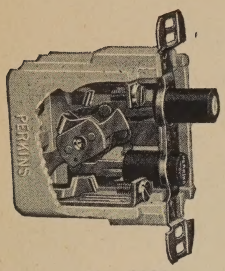
This type of switch is strong and durable and presents a neat appearance. It is particularly adapted to use on arc light, clusters, arc burst, etc. This switch saves the expense of running wire on side walls, which at times present an unsightly appearance.

Easy Action, Simply Made of the Best Material and Workmanship; to Place on Ceilings.

Mechanically and Electrically Correct.

Code Word.	List No.		List Price, Each.
Zabakoz	47576	10 amp. 220 volt. D. P.	$1.50
Zabaku	47577	10 amp. 220 volt. 3-way	1.50
Zabakub	47578	10 amp. 220 volt. 4-way	1.50
Zabakud	47579	10 amp. 220 volt. S. P.	1.25

PERKINS FLUSH SWITCHES.

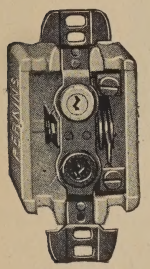


No. 2202.
(⅜ Full Size.)

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.
PUSH BUTTON GANG SWITCHES.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadazoh	2201	10 Ampere, Single Pole.....	50	$1.15
Zadazok	2208	10 Ampere, Three-Point	50	1.65
Zadazol	2204	10 Ampere, Four-Point	50	3.25
Zadazom	2202	10 Ampere, Double Pole.....	50	1.65

Outside supporting screw holes $3\frac{9}{32}$ inches on centers.
Inside supporting screw holes $2\frac{13}{16}$ inches on centers.
Gang Plates for Push Button Switches are listed elsewhere.



No. 2295.
(⅜ Full Size.)

PUSH BUTTON LOCK GANG SWITCHES.

Zadazon	2295	10 Ampere, Single Pole.....	..	1.65
Zadazop	2296	10 Ampere, Three-Point	..	2.15
Zadazor	2297	10 Ampere, Four-Point	..	3.75
Zadazos	2298	10 Ampere, Double Pole.....	..	2.15

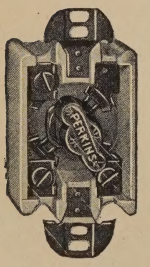
RECTANGULAR CUP GANG SWITCHES.

Zadazot	2205	5 Ampere, Single Pole.....	100	.62
Zadazov	2206	10 Ampere, Single Pole.....	50	.71
Zadazow	2325	5 Ampere, Three-Point	50	.82
Zadazox	2208	10 Ampere, Three-Point	30	1.05
Zadazoy	2209	10 Ampere, Four-Point	..	1.05
Zadazoz	2224	10 Ampere, Electrolier, 2 - Circuit	..	1.05
Zadazu	2210	10 Ampere, Electrolier, 3 - Circuit	..	1.05
Zadazum	2207	10 Ampere, Double Pole.....	50	1.05

With Indicating Dial appearing through Hole in Flush Plate.

Zadazub	2340	5 Ampere, Single Pole.....	25	.72
Zadazuc	2341	10 Ampere, Single Pole.....	10	.81
Zadazud	2342	10 Ampere, Electrolier, 2 - Circuit	..	1.15
Zadazuf	2343	10 Ampere, Electrolier, 3 - Circuit	..	1.15
Zadazug	2344	10 Ampere, Double Pole.....	10	1.15
Zadazuh	2345	Single Plate for above, 4½x2¾ inches	25	.53

Outside supporting screw holes $3\frac{9}{32}$ inches on centres.
Inside supporting screw holes $2\frac{13}{16}$ inches on centres.
Gang Plates for Rectangular Cup Switches are listed elsewhere.



No. 2208.
(⅜ Full Size.)

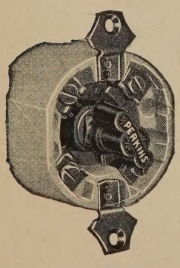
ROUND CUP GANG SWITCHES.

Zadabob	2093	5 Ampere, Single Pole.....	100	.62
Zadeboc	2094	10 Ampere, Single Pole.....	50	.71
Zadebod	2096	5 Ampere, Three-Point	50	.82
Zadebof	2097	10 Ampere, Three-Point	30	1.05
Zadebog	2098	10 Ampere, Four-Point	..	1.05
Zadeboh	2218	10 Ampere, Electrolier, 2 - Circuit	..	1.05
Zadebok	2099	10 Ampere, Electrolier, 3 - Circuit	..	1.05
Zadebol	2095	10 Ampere, Double Pole.....	50	1.05
Zadebom	2274	20 Ampere, Double Pole.....	..	1.63
Zadebon	2219	Single Plate for above, 4x2¾ inches	100	.53

With Indicating Dial appearing through Hole in Flush Plate.

Zadebop	2346	5 Ampere, Single Pole.....	25	.72
Zadebor	2347	10 Ampere, Single Pole.....	10	.81
Zadebos	2348	10 Ampere, Electrolier, 2 - Circuit	..	1.15
Zadebot	2349	10 Ampere, Electrolier, 3 - Circuit	..	1.15
Zadebov	2350	10 Ampere, Double Pole.....	10	1.15
Zadebow	2351	20 Ampere, Double Pole.....	..	1.73
Zadebox	2352	Single Plate for above 4x2¾ inches	25	.53

Supporting screw holes 3 inches on centres.
Gang Plates for Round Cup Switches are listed.
The above Switches can be converted into Lock Switches by removing the handle and substituting No. 2384 Universal Lock Attachment, listed elsewhere.

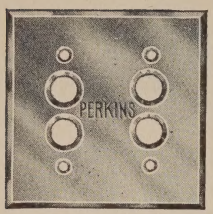


No. 2095.
(⅜ Full Size.)

PERKINS FLUSH SWITCH ACCESSORIES.

FLUSH PLATES.

FOR PUSH BUTTON SWITCHES.



No. 3166.

(¼ Full Size.)

In One Horizontal Row.

Code Word.	List No.		Height Length Dimensions, Inches.		List Price.
Zadazun	3165	For 1 switch,	4½ x 2¾	50	$0.35
Zadazup	3166	For 2 switches,	4½ x 4 9-16	—	.70
Zadazur	3167	For 3 switches,	4½ x 6⅜	—	1.05
Zadazus	3168	For 4 switches,	4½ x 8 3-16	—	1.40
Zadazut	3169	For 5 switches,	4½ x 10	—	1.75
Zadazuv	3170	For 6 switches,	4½ x 11 13-16	—	2.10
Zadazuw	3171	For 7 switches,	4½ x 13⅝	—	2.45
Zadazux	3172	For 8 switches,	4½ x 15 7-16	—	2.80

Switches in gangs spaced 1 13-16 inches on centers.

In One Vertical Row (Tandem).

Zadazuy	3369	For 2 switches,	8⅛ x 2¾		.70
Zadazuz	3370	For 3 switches.	11¾ x 2¾		1.05
Zadeba	3371	For 4 switches.	15⅜ x 2¾		1.40

Switches in tandem spaced 3⅝ inches on centers.

FOR RECTANGULAR CUP SWITCHES.

No. 3182

(¼ Full Size.)

In One Horizontal Row.

Zadebab	3181	For 1 switch,	4½ x 2¾	100	.53
Zadebac	3182	For 2 switches,	4½ x 4 9-16	—	1.20
Zadebad	3183	For 3 switches,	4½ x 6⅜	—	1.30
Zadebaf	3184	For 4 switches,	4½ x 8 3-16	—	2.40
Zadebag	3185	For 5 switches,	4½ x 10	—	3.00
Zadebah	3186	For 6 switches,	4½ x 11 13-16	—	3.60
Zadebak	3187	For 7 switches,	4½ x 13⅝	—	4.20
Zadebal	3188	For 8 switches,	4½ x 15 7-16	—	4.80

Switches in gangs spaced 1 13-16 inches on centers.

Gang Plates for Indicating Switches will be made only on special order.

In One Vertical Row (Tandem).

Zadebam	3372	For 2 switches,	8⅛ x 2¾	—	1.20
Zadeban	3373	For 3 switches.	11¾ x 2¾	—	1.30
Zadebap	3374	For 4 switches.	15⅜ x 2¾	—	2.40

Switches in tandem spaced 3⅝ inches on centers.

FOR ROUND CUP SWITCHES.

No. 2105.

(¼ Full Size.)

In One Horizontal Row.

Zadebar	2219	For 1 switch,	4 x 2¾	100	.53
Zadebas	2105	For 2 switches,	3⅝ x 7¼	—	1.20
Zadebat	2106	For 3 switches,	3⅝ x 9¾	—	1.80
Zadebav	2107	For 4 switches,	3⅝ x 12¼	—	2.40
Zadebaw	2108	For 5 switches,	3⅝ x 14¾	—	3.00
Zadebax	2109	For 6 switches,	3⅝ x 17¼	—	3.60
Zadebay	2110	For 7 switches,	3⅝ x 19¾	—	4.20
Zadebaz	2111	For 8 switches,	3⅝ x 22¼	—	4.80

In Two Horizontal Rows.

Zadebe	2112	For 4 switches,	6⅛ x 7¼	—	2.40
Zadebeb	2113	For 6 switches,	6⅛ x 9¾	—	3.16
Zadebec	2114	For 8 switches,	6⅛ x 12¼	—	4.80

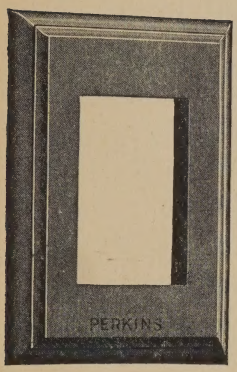
Back frames are included with the above. Switches in gangs are spaced 2½ inches on centers, both vertically and horizontally.

Gang plates for Indicating Switches will be made only on special order.

PERKINS FLUSH SWITCH ACCESSORIES.

WOOD MATS.

FOR PUSH BUTTON AND RECTANGULAR CUP FLUSH SWITCHES AND FLUSH RECEPTACLES.



No. 2361.
(¼ Full Size.)

Quartered Oak. Varnished and Rubbed.

Code Word.	List No.		List Price,
Zadebed	2361	For 1 switch.	$0.30
Zadebef	2362	For 2 switches.	.40
Zadebeg	2363	For 3 switches.	.50
Zadebeh	2364	For 4 switches.	.60
Zadebek	2365	For 5 switches.	.70
Zadebel	2366	For 6 switches.	.80
Zadebem	2367	For 7 switches.	.90
Zadeben	2368	For 8 switches.	1.00

White Wood. Unfinished.

Zadebep	2371	For 1 switch.	.30
Zadeber	2372	For 2 switches.	.40
Zadebes	2373	For 3 switches.	.50
Zadebet	2374	For 4 switches.	.60
Zadebev	2375	For 5 switches.	.70
Zadebew	2376	For 6 switches.	.80
Zadebex	2377	For 7 switches.	.90
Zadebey	2378	For 8 switches.	1.00

White wood mats can be finished to match any desired wood, to order.

IRON WALL FRAMES.

FOR PUSH BUTTON AND RECTANGULAR CUP FLUSH SWITCHES AND FLUSH RECEPTACLES.

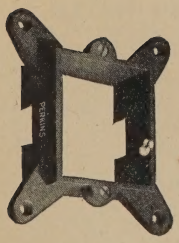
In One Horizontal Row.

			Dimensions.	
Zadebez	3157	For 1 switch,	4¼ x 3 1-16 inches..	.18
Zadebi	3158	For 2 switches,	4¼ x 4⅞ inches..	.32
Zadebib	3159	For 3 switches,	4¼ x 6 11-16 inches..	.44
Zadebic	3160	For 4 switches,	4¼ x 8½ inches..	.54
Zadebid	3161	For 5 switches,	4¼ x 10 5-16 inches..	.64
Zadebif	3162	For 6 switches,	4¼ x 12⅛ inches..	.80
Zadebig	3163	For 7 switches,	4¼ x 13 15-16 inches..	1.00
Zadebih	3164	For 8 switches,	4¼ x 15¾ inches..	1.25

In One Vertical Row.

Zadebik	3375	For 2 switches,	7⅞ x 3 1-16 inches..	.32
Zadebil	3376	For 3 switches,	11½ x 3 1-16 inches..	.44
Zadebim	3377	For 4 switches,	15⅛ x 3 1-16 inches..	.54

FOR PERKINS ROUND CUP FLUSH SWITCHES.



No. 2127.
(¼ Full Size.)

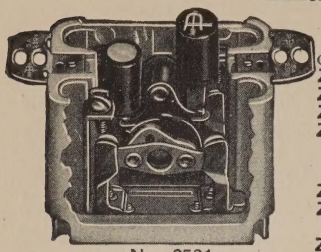
In One Horizontal Row.

Zadebin	2127	For 1 switch,	4 x 3¾ inches..	.20
Zadebip	2128	For 2 switches,	4 x 7½ inches..	.35
Zadebir	2129	For 3 switches,	4 x 10 inches..	.50
Zadebis	2130	For 4 switches,	4 x 12½ inches..	.60
Zadebit	2131	For 5 switches,	4 x 15 inches..	.75
Zadebiv	2132	For 6 switches,	4 x 17½ inches..	.95
Zadebiw	2133	For 7 switches,	4 x 20 inches..	1.20
Zadebix	2134	For 8 switches,	4 x 22½ inches..	1.50

In Two Horizontal Rows.

Zadebiy	2135	For 4 switches,	6½ x 7½ inches..	.90
Zadebiz	2136	For 6 switches,	6½ x 10 inches..	1.50
Zadebo	2137	For 8 switches,	6½ x 12½ inches..	2.10

"ARROW P" SWITCHES.



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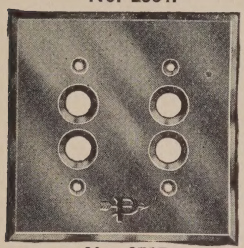

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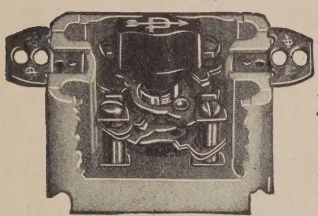

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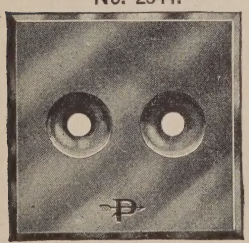

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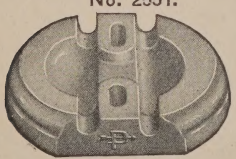

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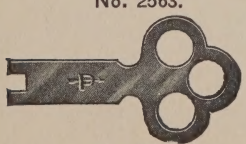


No. 2567.

No. 2566.

PUSH BUTTON FLUSH SWITCHES WITHOUT PLATE.

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zaderag	2530	6300	10 Amp. Single Pole.....	50	$1.15
Zaderah	2531	6301	10 Amp. Double Pole.....	50	1.65
Zaderak	2532	6302	10 Amp. Three-Point	50	1.65
Zaderal	2533	6303	10 Amp. Four-Point	5	3.25

FLUSH PLATES FOR PUSH BUTTON FLUSH SWITCHES—IN ONE HORIZONTAL ROW.

Zaderam	2534	6312	For One Switch, 4½x2¾ in.	50	.35
Zaderan	2535	6313	For Two Switches, 4½x4 9/16 in.	—	.70
Zaderap	2536	6314	For Three Switches, 4½x6⅜ in.	—	1.05
Zaderar	2537	6315	For Four Switches, 4½x8 3/16 in.	—	1.40
Zaderas	2538	6316	For Five Switches, 4½x10 in.	—	1.75
Zaderat	2539	6317	For Six Switches, 4½x11 13/16 in.	—	2.10
Zaderav	2540	6318	For Seven Switches, 4½x13⅝ in.	—	2.45
Zaderaw	2541	6319	For Eight Switches, 4½x15 7/16 in.	—	2.80

RECTANGULAR ROTARY FLUSH SWITCHES WITHOUT PLATES.

Zaderax	2542	6250	5 Amp. Single Pole 100		.62
Zaderay	2543	6251	10 Amp. Single Pole	50	.71
Zaderaz	2544	6252	10 Amp. Double Pole	50	1.05
Zadere	2545	6253	5 Amp. Three-Point	50	.82
Zadereb	2546	6254	10 Amp. Three-Point	30	1.05
Zaderec	2547	6255	10 Amp. Four-Point	—	1.05
Zadered	2548	6256	10 Amp. Two Circuit.....	—	1.05
Zaderef	2549	6257	10 Amp. Three Circuit.....	—	1.05

FLUSH PLATES FOR RECTANGULAR ROTARY FLUSH SWITCHES—IN ONE HORIZONTAL ROW.

Zaderag	2550	6265	For One Switch, 4½x2¾ in.	100	.53
Zadereh	2551	6266	For Two Switches, 4½x4 9/16 in.	—	1.20
Zaderek	2552	6267	For Three Switches, 4½x6⅜ in.	—	1.80
Zaderel	2553	6268	For Four Switches, 4½x8 3/16 in.	—	2.40
Zaderem	2554	6269	For Five Switches, 4½x10 in.	—	3.00
Zaderen	2555	6270	For Six Switches, 4½x11 13/16 in.	—	3.60
Zaderep	2556	6271	For Seven Switches, 4½x13⅝ in.	—	4.20
Zaderer	2557	6272	For Eight Switches, 4½x15 7/16 in.	—	4.80

SPECIAL FINISHES ON FLUSH PLATES.

For Special Finishes add to list per switch 10 cents.

Note.—Polished Brass, Old Brass, Brush Brass, Polished Bronze, Oxidized Copper and Polished Nickel are all standard finishes for Flush Plates. All other finishes are special.

PORCELAIN SWITCH BASES—FOR 5 AMP. SWITCHES.

Zaderes	2558	6330	For Cleat Work 100		.05
Zaderet	2559	6331	For Concealed Work 100		.05
Zaderev	2560	6332	For Molding Work 100		.05

FOR 10 AMP. SWITCHES.

Zaderew	2561	6335	For Cleat Work 100		.06
Zaderex	2562	6336	For Concealed Work 100		.06
Zaderey	2563	6337	For Molding Work 100		.06

FOR 5 AND 10 AMP. SINGLE POLE SWITCHES.

Zaderez	2564	6340	To be used at the end of Molding 100		.06

LOCK ATTACHMENTS.

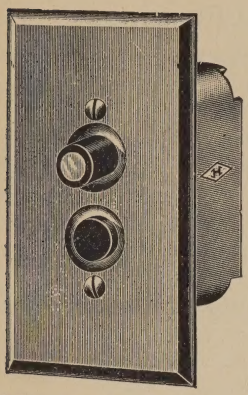
Zaderi	2565	6220	Universal Lock Attachment, with key		.18
Zaderib	2566	6221	Universal Lock Attachment, without key		.12
Zaderic	2567	6222	Key for Universal Lock Attachment		.06

The above Lock Attachments will fit all Surface and Rotary Flush Switches.

Switch Handles, all styles..... .06

"DIAMOND H" SWITCHES.

PUSH BUTTON SWITCHES.



With Regular Plate.

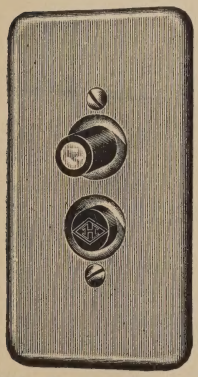
REGULAR PUSH BUTTON SWITCH.

Insulated with solid Sheet Mica, Phosphor Bronze Contacts, accessible Binding Posts. Quick and positive action. No sticking.

10 AMPERES, 220 VOLTS.

Without Plates.

Code Word.	List No.	Mfr. No.		List Price, Each.
Potoki	13297	010	S. P.	$1.50
Potami	13298	020	D. P.	1.85
Porog	13299	030	3 Way	1.85
Ponkan	13300	040	4 Way	3.60

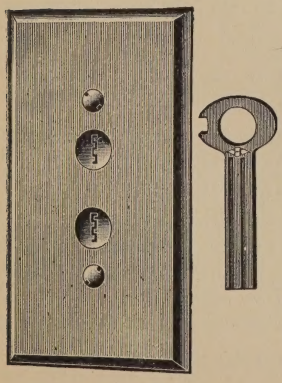


With Round Cornered Plate.

With Plates.

Posa	13301	10	S. P.	1.90
Posen	13302	20	D. P.	2.25
Poska	13303	30	3 Way	2.25
Poshan	13304	40	4 Way	4.00

LOCK PUSH BUTTON SWITCHES.



Lock Push Switch.

Without Plates.

Pernau	13305	L010	S. P.	1.60
Pernegg	13306	L020	D. P.	1.95
Pernes	13307	L030	3 Way	1.95
Pernigel	13308	L040	4 Way	3.70

With Plates.

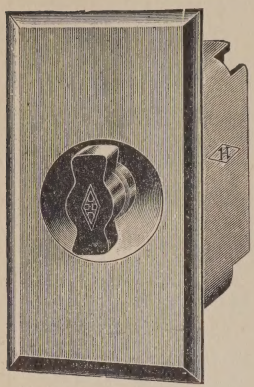
Perse	13309	L10	Single Pole	2.50
Persiat	13310	L20	Double Pole	2.85
Persien	13311	L30	3 Way	2.85
Persil	13312	L40	4 Way	4.60

"DIAMOND H" SWITCHES.

ROTARY FLUSH SWITCHES.

REGULAR ROTARY FLUSH SWITCH.

Hardened and tempered steel wearing parts. Indicating Spring Handles. Solid sheet mica insulation. Phosphor Bronze Contacts.



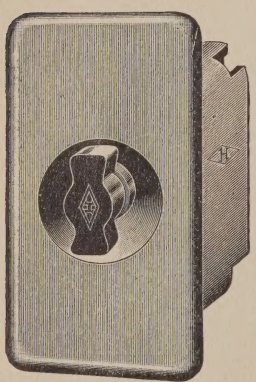
With Regular Plate.

Without Plates.

Code Word.	List No.	Mfr. No.		List Price, Each.
Rolum	13191	0105	5 amp. S. P., 220 volts.....	$0.72
Rolus	13192	0110	10 amp. S. P., 220 volts.....	.84
Romen	13193	0120	10 amp. D. P., 220 volts.....	1.32
Ronchi	13194	0130	10 amp. 3-way, 220 volts.....	1.32
Ronura	13195	0140	10 amp. 4-way, 220 volts.....	1.32
Rosak	13196	0150	10 amp. 2 Pt. Elr., 220 volts.....	1.32
Rovac	13197	0160	10 amp. 3 Pt. Elr., 220 volts.....	1.32

With Plates.

Rangem	13198	105	5 amp. S. P., 220 volts.....	1.44
Rangery	13199	110	10 amp. S. P., 220 volts.....	1.56
Raja	13200	120	10 amp. D. P., 220 volts.....	2.04
Rakow	13201	130	10 amp. 3-way, 220 volts.....	2.04
Rashid	13202	140	10 amp. 4-way, 220 volts.....	2.04
Rambo	13203	150	10 amp. 2 Pt. Elr., 220 volts.....	2.04
Rasak	13204	160	10 amp. 3 Pt. Elr., 220 volts.....	2.04



With Round Cornered Plate.

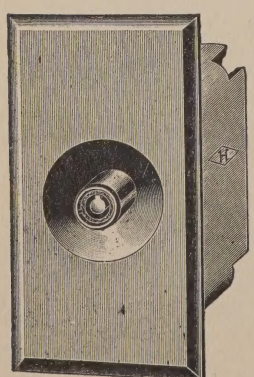
LOCK ROTARY FLUSH SWITCHES.

Without Plates.

Zacacac	13205	L0105	5 amp. S. P., 220 volts.....	.72
Zacacad	13206	L0110	10 amp. S. P., 220 volts.....	.84
Zacacaf	13207	L0120	10 amp. D. P., 220 volts.....	1.32
Zacacag	13208	L0130	10 amp. 3-way, 220 volts.....	1.32
Zacacah	13209	L0140	10 amp. 4-way, 220 volts.....	1.32
Zacacak	13210	L0150	10 amp. 2 Pt. Elr., 220 volts.....	1.32
Zacacal	13215	L0160	10 amp. 3 Pt. Elr., 220 volts.....	1.32

With Plates.

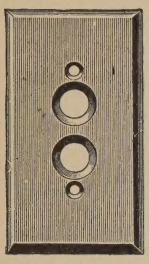
Zacacam	13216	L105	5 amp. S. P., 220 volts.....	1.68
Zacacan	13217	L110	10 amp. S. P., 220 volts.....	1.80
Zacacap	13218	L120	10 amp. D. P., 220 volts.....	2.28
Zacacar	13221	L130	10 amp. 3-way, 220 volts.....	2.28
Zacacas	13222	L140	10 amp. 4-way, 220 volts.....	2.28
Zacacat	13226	L150	10 amp. 2 Pt. Elr., 220 volts.....	2.28
Zacacav	13227	L160	10 amp. 3 Pt. Elr., 220 volts.....	2.28



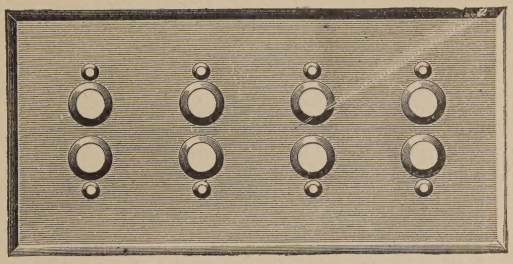
Rotary Flush Lock.

"DIAMOND H" SWITCHES.

SWITCH PLATES.



Single Plate.



Gang Plate.

PLATES FOR PUSH BUTTON SWITCHES.

SQUARE CORNERS.

Code Word.	List No.	Mfr. No.	Size.	List Price, Each.
Zacaboc	13228	1	2¾ in. x 4½ in.	$0.40
Zacabod	13229	2	4 9/16 in. x 4½ in.	.80
Zacabof	13230	3	6⅜ in. x 4½ in.	1.20
Zacabog	13231	4	8 3/16 in. x 4½ in.	1.60
Zacaboh	13232	5	10 in. x 4½ in.	2.00
Zacabok	13233	6	11 13/16 in. x 4½ in.	2.40
Zacabol	13234	7	13⅝ in. x 4½ in.	2.80
Zacabom	13235	8	15 7/16 in. x 4½ in.	3.20
Zacabon	13236	9	17¼ in. x 4½ in.	3.60
Zacabop	13237	10	19 1/16 in. x 4½ in.	4.00

ROUND CORNERS.

Zacabor	13238	1	2¾ in. x 4½ in.	.40
Zacabos	13239	2	4 9/16 in. x 4½ in.	.80
Zacabot	13240	3	6⅜ in. x 4½ in.	1.20
Zacabov	13241	4	8 3/16 in. x 4½ in.	1.60
Zacabow	13242	5	10 in. x 4½ in.	2.00
Zacabox	13243	6	11 13/16 in. x 4½ in.	2.40
Zacaboy	13244	7	13⅝ in. x 4½ in.	2.80
Zacaboz	13245	8	15 7/16 in. x 4½ in.	3.20
Zacabu	13246	9	17¼ in. x 4½ in.	3.00
Zacabub	13247	10	19 1/16 in. x 4½ in.	4.00

PLATES FOR ROTARY FLUSH SWITCHES.

SQUARE CORNERS.

Zacabuc	13248	1	2¾ in. x 4½ in.	.72
Zacabud	13249	2	4 9/16 in. x 4½ in.	1.44
Zacabuf	13250	3	6⅜ in. x 4½ in.	2.26
Zacabug	13251	4	8 3/16 in. x 4½ in.	2.88
Zacabuh	13253	5	10 in. x 4½ in.	3.60
Zacabuk	13254	6	11 13/16 in. x 4½ in.	4.32
Zacabul	13255	7	13⅝ in. x 4½ in.	5.04
Zacabum	13256	8	15 7/16 in. x 4½ in.	5.76
Zacabun	13258	9	17¼ in. x 4½ in.	6.48
Zacabup	13259	10	19 1/16 in. x 4½ in.	7.20

ROUND CORNERS.

Zacabur	13260	1	2¾ in. x 4½ in.	.72
Zacabus	13261	2	4 9/16 in. x 4½ in.	1.44
Zacabut	13262	3	6⅜ in. x 4½ in.	2.26
Zacabuv	13263	4	8 3/16 in. x 4½ in.	2.88
Zacabuw	13264	5	10 in. x 4½ in.	3.60
Zacabux	13265	6	11 13/16 in. x 4½ in.	4.32
Zacabuy	13266	7	13⅝ in. x 4½ in.	5.04
Zacabuz	13267	8	15 7/16 in. x 4½ in.	5.76
Zacaca	13268	9	17¼ in. x 4½ in.	6.48
Zacacab	13269	10	19 1/16 in. x 4½ in.	7.20

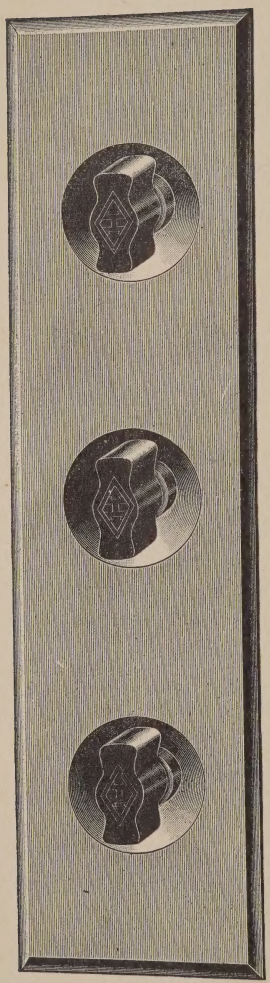
The above are our regular, or Style "S" Plates. Plates of smaller or larger sizes can be made to order.

Plates of dimensions given are for general use, either with conduit boxes or "Diamond H" steel wall cases.

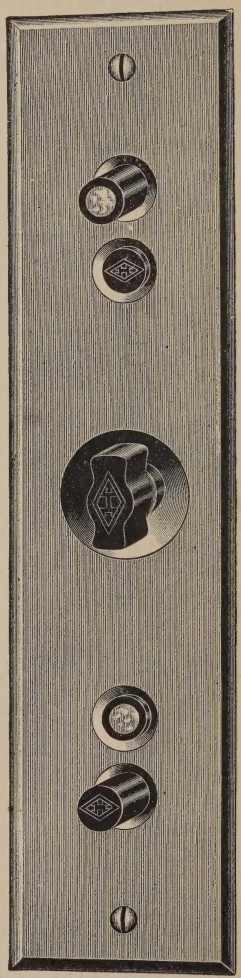
The prices include ordinary finishes, nickel, bronze, polished brass, old brass and most of the oxidized finishes.

"DIAMOND H" SWITCHES.

TANDEM GANG PLATES.



Rotary Tandem Gang.



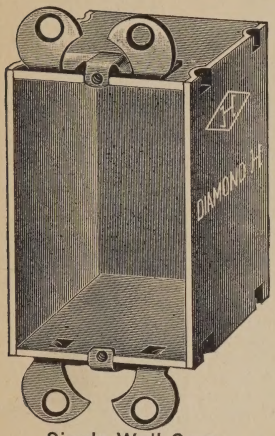
Combination Tandem Gang.

COMBINATION GANG PLATES.

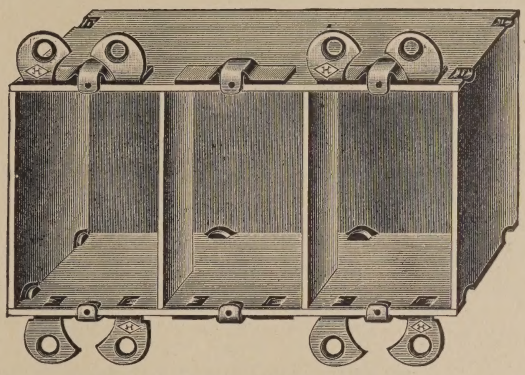
This style of Plate affords a combination of either Rotary or Push Button Switches as desired. The cost of any combination can be easily obtained by adding the cost of each separate Switch used.

"DIAMOND H" SWITCHES.

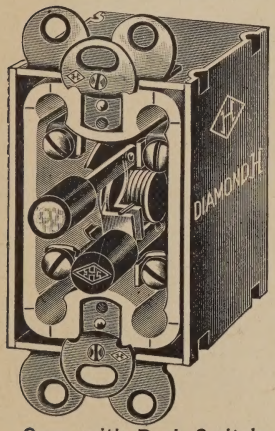
WALL CASES.



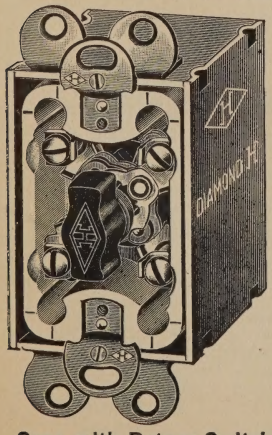
Single Wall Case.



Gang Wall Cases.



Case, with Push Switch.



Case, with Rotary Switch.

"Diamond H" Wall Cases are designed to meet the latest requirements of the National Board of Fire Underwriters and are made of galvanized cold-rolled steel, .085 inch thick. They require Type "S" Universal Plates, which are the plates furnished on all flush switches and receptacles, unless other sizes are specified. These cases are made both 2½ inches and 3⅝ inches deep, and are furnished with a liberal supply of knock out holes for connections.

The Plates are recessed to take the ears.

No time wasted in recessing Ears into wall. The plates are recessed to take the Ears.

Shallow. 2½ Inches Deep.

For shallow partitions and for use with Attix wire, Alphaduct, Circular Loom or Flexduct.

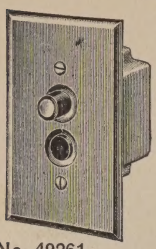
Code Word.	List No.	Mfr. No.				List Price, Each.
Casian	13277	81	For	1	Switch	$0.40
Casoli	13278	82	For	2	Switches	.70
Casoria	13279	83	For	3	Switches	1.00
Cassa	13280	84	For	4	Switches	1.30
Casigua	13281	85	For	5	Switches	1.60
Cascorro	13282	86	For	6	Switches	1.90
Caserta	13283	87	For	7	Switches	2.20
Casligar	13284	88	For	8	Switches	2.50
Castean	13285	89	For	9	Switches	2.80
Casma	13286	90	For	10	Switches	3.10

Deep. 3⅝ Inches Deep.

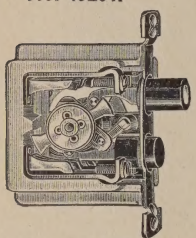
For use with iron conduit or "BX."

Dasa	13287	281	For	1	Switch	.50
Dasori	13288	282	For	2	Switches	.80
Datha	13289	283	For	3	Switches	1.20
Datu	13290	284	For	4	Switches	1.50
Daura	13291	285	For	5	Switches	1.90
Deccan	13292	286	For	6	Switches	2.20
Dehna	13293	287	For	7	Switches	2.50
Deli	13294	288	For	8	Switches	2.80
Deltag	13295	289	For	9	Switches	3.10
Derek	13296	290	For	10	Switches	3.40

Tandem cases for either shallow or deep, furnished at same list as above, from two to six switches.



No. 49261.



Interior View.

H. AND H. SWITCHES.

PUSH BUTTON FLUSH SWITCH.

WITHOUT PLATES.

The current carrying parts are insulated from mechanism by sheet mica.

The push is easy and cannot fail to operate.

Binding screws are extra long, making it easy to wire.

The porcelain has been designed so that there is ample room for wires of any necessary size, or for splicing.

The form of the porcelain allows extra room when used in gang boxes.

There is a saving in labor when installing.

Can be installed in any standard wall box or in our steel wall cases without alteration or removal of any parts.

Schedule G.

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zabazan	49261	701	Single pole, 10 amp. 110 volts; 5 amp. 220 volts, without plate...	50	$1.15
Zabazap	49262	702	Double pole, 10 amp. 220 volts....	50	1.65
Zabazar	49263	703	3-way, 10 amp. 110 volts; 5 amp. 220 volts, without plate.....	50	1.65
Zabazas	49264	704	4-way, 10 amp. 110 volts; 5 amp. 220 volts, without plate.....	5	3.25

PLATES FOR PUSH BUTTON FLUSH SWITCHES.

Plates made in this style carried in stock to accommodate from one to eight switches. We furnish on order plates of any size and for any number of switches.

Particular attention is called to the size of the plates. They are made large so they can be used in connection with the wall cases and cover up all broken edges of plaster. This size of plate is always sent, unless otherwise specified.

Schedule H.

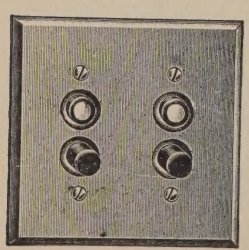
Zabazat	49265	4051	For 1 switch.....	50	.35
Zabazav	49266	4052	For 2 switches.....	..	.70
Zabazaw	49267	4053	For 3 switches.....	..	1.05
Zabazax	49268	4054	For 4 switches.....	..	1.40
Zabazaz	49269	4055	For 5 switches.....	..	1.75
Zabaze	49270	4056	For 6 switches.....	..	2.10
Zabazeb	49271	4057	For 7 switches.....	..	2.45
Zabazed	49272	4058	For 8 switches.....	..	2.80

SMALL PLATES.

The smaller size cannot be used with wall cases, but can be used with iron conduit boxes and iron frames. If these plates are wanted, order small plates. They are not sent unless specified.

Zabazef	49273	4041	For 1 switch.....	50	.35
Zabazeg	49274	4042	For 2 switches.....	..	.70
Zabazeh	49275	4043	For 3 switches.....	..	1.05
Zabazek	49276	4044	For 4 switches.....	..	1.40
Zabazel	49277	4045	For 5 switches.....	..	1.75
Zabazem	49278	4046	For 6 switches.....	..	2.10
Zabazen	49279	4047	For 7 switches.....	..	2.45
Zabazep	49280	4048	For 8 switches.....	..	2.80

TANDEM PLATES FOR PUSH BUTTON FLUSH SWITCHES.



No. 44736.

Plates are made in tandem style and carried in stock to accommodate from two to six switches.

We furnish on order Tandem Plates of any size to accommodate any number of switches.

Stock Tandem Plates are made of one size only, and are adapted for use with Hart Wall Cases and Iron Conduit Boxes.

Zotah	44736	4072	For 2 switches.....	..	.70
Zotak	44737	4073	For 3 switches.....	..	1.05
Zotal	44738	4074	For 4 switches.....	..	1.40
Zotam	44739	4075	For 5 switches.....	..	1.75
Zotan	44740	4076	For 6 switches.....	..	2.00

Plates for push button switches are the same price for both sizes Horizontal Styles P. and S. P. and Tandem Style T. P.

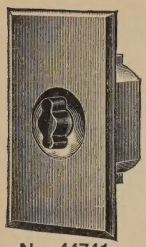
The above plates are also used with the lock push switches.

Plates are furnished in the following finishes:—Nickel, polished brass, dull brass, polished bronze.

All other finishes are special.

Nickel plates are always furnished unless otherwise specified.

H. AND H. SWITCHES.



No. 44741.

RECTANGULAR BASE FLUSH SWITCHES.

WITHOUT PLATES.

The Switches will fit in the same space as a Push Button Flush Switch.

The current carrying parts are insulated from mechanism.

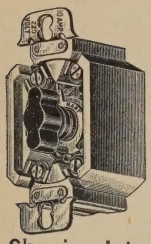
The operation is easy, smooth and sure.

The Switch fits any standard box designed for Push Button Flush Switches, or the Hart standard wall case, without alteration or removal of any parts.

Binding screws are extra long, making it easy to wire.

250 VOLTS.

Schedule E.



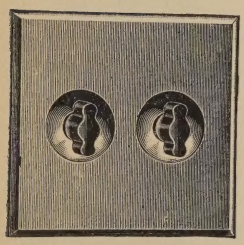
Showing Interior.

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zotap	44741	600	5 amp., S. P.....	50	$0.63
Zotar	44742	601	10 amp. S. P.....	50	.72
Zotas	44743	602	10 amp., D. P.....	50	1.08
Zotat	44744	603	10 amp., 3-way.....	50	1.08
Zotav	44745	604	10 amp., 4-way.....	..	1.08
Zotaw	44746	605	10 amp., 3 section electrolier	..	1.08
Zotax	44747	609	10 amp., 2 section electrolier	..	1.08

PLATES FOR RECTANGULAR BASE FLUSH SWITCHES.

Plates are made in this style and carried in stock to accommodate from one to eight switches.

We furnish, on order, plates of any size and for any number of switches.



No. 49232.

Schedule F.

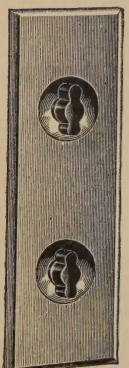
Zabazer	49281	4031	For 1 switch.....	100	.50
Zabazes	49282	4032	For 2 switches.....	..	1.20
Zabazet	49283	4033	For 3 switches.....	..	1.30
Zabazev	49284	4034	For 4 switches.....	..	2.40
Zabazew	49285	4035	For 5 switches.....	..	3.00
Zabazex	49286	4036	For 6 switches.....	..	3.60
Zabazez	49287	4037	For 7 switches.....	..	4.20
Zabazi	49288	4038	For 8 switches.....	..	4.80

Small plates furnished at same list prices as above.

Plates for rectangular base flush switches are the same price for both sizes. Horizontal Styles R. and S. R. and Tandem Style T. R.

Plates are furnished in the following finishes: Nickel, polished brass, dull brass, polished bronze. All other finishes special.

Nickel plates are always furnished unless otherwise specified.



No. 49289.

TANDEM PLATES FOR RECTANGULAR FLUSH SWITCHES.

These plates are made in tandem style and carried in stock to accommodate from two to six switches.

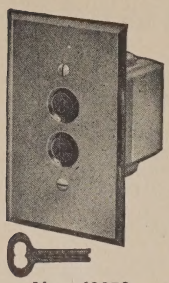
We furnish, on order, tandem plates of any size, accompanying any number of switches.

Stock tandem plates are made of one size only and are adapted for use with Hart Wall Cases.

Zabazib	49289	4062	For 2 switches.....	..	1.20
Zabazid	49290	4063	For 3 switches.....	..	1.80
Zabazif	49291	4064	For 4 switches.....	..	2.40
Zabazig	49292	4065	For 5 switches.....	..	3.00
Zabazih	49293	4066	For 6 switches.....	..	3.60

Finishes the same as those for tandem plates on push button flush switches.

H. AND H. SWITCHES.



No. 49050.

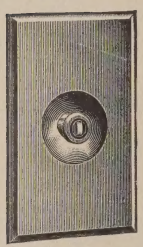
LOCK PUSH SWITCH.

Cannot be operated without the Key which is furnished with the Switch, even if the plate has been removed.

Plates as furnished on regular push switches will fit the lock switch making it possible to install in gangs without the use of a special plate.

Schedule G.

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zademab	49050	701L	10 amp. S. P.....	..	$1.65
Zademac	49051	702L	10 amp. D. P.....	..	2.15
Zademad	49052	703L	10 amp. 3-Way....	..	2.15
Zademaf	49053	704L	10 amp. 4-Way....	..	3.75
Zademil	49060	5003	Key only for above....		.15



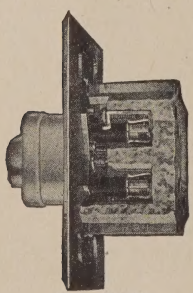
Showing Lock Attachment. Mounted.

LOCK ATTACHMENT.

Schedule L.

All switches, both standard and flush, can be furnished with lock attachment and detachable key when so ordered.

Zademag	49054	5001	Lock attachment..	..	.12
Zademah	49055	5002	Key for above.....	..	.06

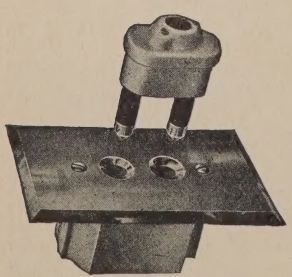


No. 49056.
Plug in Position.

H. AND H. FLUSH RECEPTACLES.

This receptacle is mounted in a porcelain base and will fit any appliance intended to receive an H. and H. switch or rectangular base flush switch.

Flush plates provided with shutters automatically closing the opening when plug is withdrawn.



No. 49056.
Plug Withdrawn.

FOR CIRCUITS UP TO 250 VOLTS.

5 Amperes.

Schedule G.

Zademak	49056	2034	Complete	25	1.85
Zademal	49057	2001	Receptacle base.....	25	.70
Zademam	49058	2033	Plate	..	.65
Zademan	49059	2002	Plug	..	.50

H. AND H. SWITCHES.

No. 49299.

WALL CASES.

SCHEDULE I.

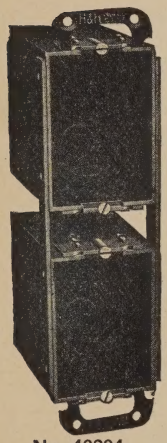
For Push Button Switches and Rectangular Base Flush Switches.

Wall Cases are made of sheet steel .080 inch in thickness and are japanned. They have four outlets in the bottom for ⅜ inch and two outlets in each end for ¼ inch flexible conduit.

All outlets are plugged with blanks, which are easily knocked out.

Wall Cases are carried in stock to accommodate either single switches, or in gangs up to eight.

Ears for holding Wall Cases are made so they can be reversed and the case used for installations in new work. When ears are reversed the distance from the ear to the top of case is 9-16 in.



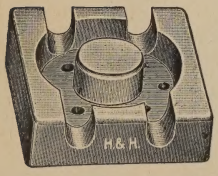
No. 49294.

HORIZONTAL STYLE.

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zabazir	49299	3031	For 1 switch.....	50	$0.40
Zabazis	49300	3032	For 2 switches.....	25	.70
Zabazit	49301	3033	For 3 switches.....	25	1.00
Zabaziv	49302	3034	For 4 switches.....	10	1.30
Zabaziw	49303	3035	For 5 switches.....	5	1.60
Zabazix	49304	3036	For 6 switches.....	5	1.90
Zabaziz	49305	3037	For 7 switches.....	5	2.30
Zabazo	49306	3038	For 8 switches.....	5	2.40

TANDEM STYLE.

Zabazik	49294	3042	For 2 switches.....	..	.70
Zabazil	49295	3043	For 3 switches.....	..	1.00
Zabazim	49296	3044	For 4 switches.....	..	1.30
Zabazin	49297	3045	For 5 switches.....	..	1.60
Zabazip	49298	3046	For 6 switches.....	..	1.90



No. 49309.

SUB-BASES.

SCHEDULE L.

For use with Standard "H. & H." Switches on cleat work.

Zabazof	49309	1555	5 amp. sub-base, per 100.....	6.00
Zabazog	49310	1556	10 amp. sub-base, per 100.....	6.00
Zabazoh	49311	1557	20 amp. sub-base, per 100.....	12.00
Zabazok	49312	1558	35 amp. sub-base, per 100.....	12.00

No. 49307.

CONDUIT FASTENERS.

SCHEDULE L.

Brass fasteners for holding flexible conduit in wall cases. Packed 100 in box.

Directions.

Insert conduit through outlet in wall case. Force fastener over end of conduit, as shown in cut, and teeth of fastener will engage the fabric.

Fastened in Place on Conduit.

Zabazob	49307	5007	Conduit fastener, per 100.....	.60
Zabazod	49308	5008	Conduit fastener, per 100.....	.60

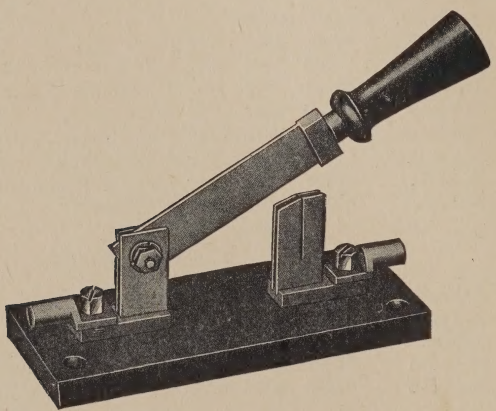
AMERICAN KNIFE SWITCHES.

TYPE "A."

These Switches are designed to conform to the requirements of the National Board of Fire Underwriters, and special attention has been paid to every detail of construction. They are made of pure hard drawn copper; the blade ends are reinforced and they have ample metal and contact surface to carry 50 per cent. overload. (Made in plain or polished finish.) All nuts, screws, etc., are copper plated to match conducting parts.

All fused switches are fused on hinge end unless ordered fused on handle end. When switches are fused on handle end high jaws are required. All orders for fused switches will be filled with switches for National Electric Code fuses unless make and type of fuse are specified.

All orders for Switches should specify: Voltage, Amperage, Fused or Unfused, Single, Double or Three Pole, Single or Double Throw, Front or Back Connection, Front or Back Fused, Plain or Polished Finish. Plain Finish will be shipped when finish is not specified.



SINGLE POLE, 250 VOLTS, PLAIN FINISH, FRONT CONNECTED.

Amp.	List No.	S. P. S. T	List No.	S. P. D. T.	List No.	S. P. S. T. Fused.	List No.	S. P. D. T. Fused.
25	27794	$ .76	27806	$1.22	27818	$1.16	27828	$2.40
35	27795	.96	27807	1.54	27819	1.40	27829	2.96
50	27796	1.25	27808	2.02	27820	1.75	27830	3.70
75	27797	1.66	37809	2.66	27821	2.66	27831	5.56
100	27798	2.36	27810	3.78	27822	3.50	27832	7.36
150	27799	3.33	27811	5.33	27823	5.10	27833	10.70
200	27800	3.75	27812	6.00	27824	5.54	27834	11.64
300	27801	5.42	27813	8.70	27825	7.75	27835	16.25
400	27802	7.50	27814	12.00	27826	10.40	27836	20.86
600	27803	10.25	27815	16.40	27827	14.00	27837	29.40
800	27804	15.84	27816	25.34				
1,200	27805	30.00	27817	48.00				

Fused Switches for National Electrical Code Standard Fuses.

For open link, or Type A fuses, add 25 per cent. to unfused list.

Polished Finish, add 25 per cent.

Four Pole Switches two and one-half times price of Double Pole.

For 500 Volt Switches, add 25 per cent.

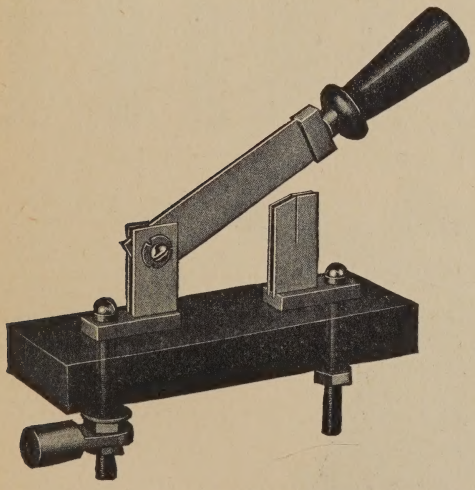
AMERICAN KNIFE SWITCHES.

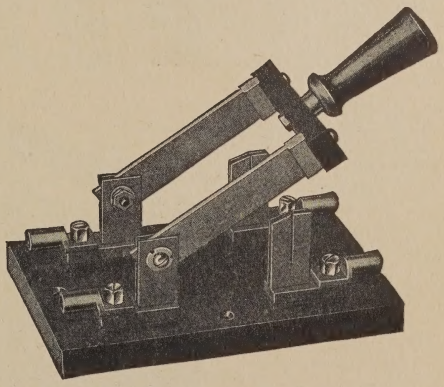
TYPE "A."

SINGLE POLE, 250 VOLTS, PLAIN FINISH, BACK CONNECTED.

Amp.	List No.	S. P. S. T.	List No.	S. P. D. T.	List No.	S. P. S. T. Fused.	List No.	S. P. D. T. Fused.
25	27702	$ .94	27714	$1.50	27726	$1.30	27736	$2.75
35	27703	1.08	27715	1.74	27727	1.60	27737	3.36
50	27704	1.46	27716	2.34	27728	2.00	27738	4.20
75	27705	2.08	27717	3.34	27729	3.06	27739	6.40
100	27706	2.92	27718	4.66	27730	3.86	27744	8.10
150	27707	4.16	27719	6.66	27731	5.86	27745	12.30
200	27708	4.66	27720	7.46	27732	6.40	27746	13.44
300	27709	6.66	27721	10.66	27733	9.06	27747	19.00
400	27710	9.16	27722	14.66	27734	12.20	27748	25.60
600	27711	13.34	27723	21.32	27735	17.25	27749	36.20
800	27712	20.00	27724	32.00				
1,200	27713	40.00	27725	64.00				

Fused Switches for National Code Standard Fuses.
For open link, or Type A fuses, add 25 per cent. to unfused list.
Rear Fused Switches, add 20 per cent. to price of Front Fused.
Polished Finish, add 20 per cent.
Four Pole Switches two and one-half times price of Double Pole.
For 500 Volt Switches, add 25 per cent.



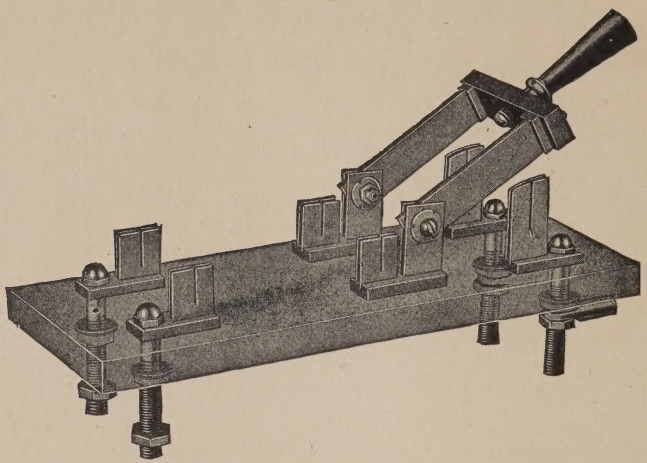


DOUBLE POLE, 250 VOLTS, PLAIN FINISH, FRONT CONNECTED.

Amp.	List No.	S. T. D. P.	List No.	D. P. D. T.	List No.	D. P. S. T. Fused.	List No.	D. P. D. T. Fused.
25	27750	$1.15	27762	$1.84	27774	$1.70	27784	$3.60
35	27751	1.45	27763	2.32	27775	2.10	27785	4.40
50	27752	1.88	27764	3.06	27776	2.60	27786	5.44
75	27753	2.50	27765	4.00	27777	4.00	27787	8.40
100	27754	3.55	27766	5.68	27778	5.25	27788	11.00
150	27755	5.00	27767	8.00	27779	7.60	27789	15.94
200	27756	5.62	27768	9.00	27780	8.36	27790	17.56
300	27757	8.15	27769	13.04	27781	11.60	27791	24.34
400	27758	11.25	27770	18.00	27782	15.66	27792	32.66
600	27759	15.37	27771	24.60	27783	21.50	27793	45.15
800	27760	23.75	27772	38.00				
1,200	27761	45.00	27773	72.00				

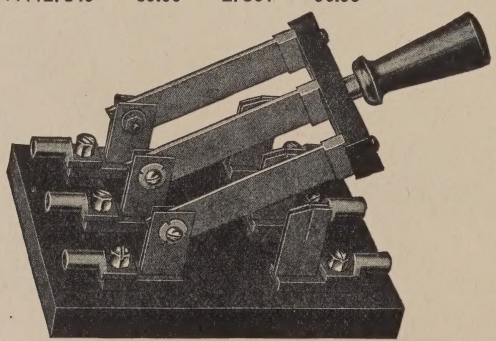
AMERICAN KNIFE SWITCHES.

TYPE "A."



DOUBLE POLE, 250 VOLTS, PLAIN FINISH, BACK CONNECTED.

Amp.	List No.	D P. S. T.	List No.	D P. D. T.	List No.	D. P. S. T. Fused.	List No.	D. P. D. T. Fused.
25	27838	$1.40	27850	$2.24	27862	$2.00	27872	$4.20
35	27839	1.62	27851	2.60	27863	2.40	27873	5.06
50	27840	2.20	27852	3.52	27864	3.00	27874	6.30
75	27841	3.12	27853	5.00	27865	4.60	27875	9.64
100	27842	4.38	27854	7.00	27866	5.80	27876	12.20
150	27843	6.25	27855	10.00	27867	8.80	27877	18.50
200	27844	7.00	27856	11.20	27868	9.60	27878	20.16
300	27845	10.00	27857	16.00	27869	13.60	27879	28.56
400	27846	13.75	27858	22.00	27870	18.36	27880	38.56
600	27847	20.00	27859	32.00	27871	25.86	27881	54.30
800	27848	30.00	27860	48.00				
1,200	27849	60.00	27861	96.00				



THREE POLE, 250 VOLTS, PLAIN FINISH, FRONT CONNECTED.

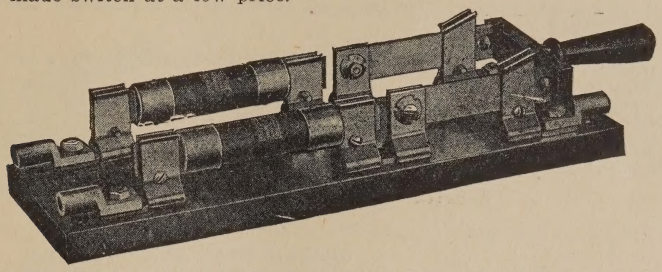
Amp.	List No.	3 P. S. T.	List No.	3 P. D. T.	List No.	3 P. S. T. Fused.	List No.	3 P. D. T Fused.
25	27882	$1.72	27894	$2.76	27906	$2.56	27916	$5.34
35	27883	2.18	27895	3.48	27907	3.16	27917	6.60
50	27884	2.82	27896	4.60	27908	3.90	27918	8.20
75	27885	3.75	27897	6.00	27909	6.00	27919	12.60
100	27886	5.30	27898	8.52	27910	8.90	27920	18.70
150	27887	7.50	27899	12.00	27911	11.40	27921	23.94
200	27888	8.40	27900	13.50	27912	12.50	27922	26.25
300	27889	12.22	27901	19.56	27913	17.40	27923	36.54
400	27890	16.86	21902	27.00	27914	23.45	27924	49.25
600	27891	23.06	27903	36.90	27915	32.25	27925	67.70
800	27892	35.62	27904	57.00				
1,200	27893	67.50	27905	108.00				

Fused Switches for National Code Standard Fuses. For Open Link, or Type A Fuses, add 25 per cent. to unfused list. Polished Finish, add 25 per cent. Four Pole Switches, two and one-half times price of Double Pole. For 500 Volt Switches, add 25 per cent.

AMERICAN KNIFE SWITCHES.

TYPE "B."

This is an all copper Switch of the punched clip form. Contact clips are made in the best standard form of pure drawn copper. This Switch will meet the demand for a substantial well made switch at a low price.

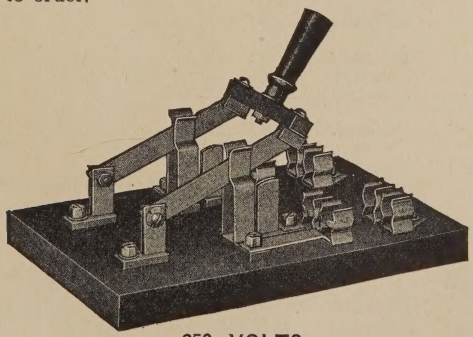


250 VOLTS, MADE ONLY IN FRONT CONNECTION AND PLAIN FINISH.

Amp.	List No.	S. P. S. T.	List No.	S. P. D. T.	List No.	D P. S. T.	List No.	D P. D. T.	List No.	3 P. S. T.	List No.	3 P. D. T.
15	27988	$ .32	27994	$ .60	28000	$ .50	28006	$ .92	28012	$ .75	28018	$1.38
25	27989	.46	27995	.86	28001	.68	28007	1.26	28013	1.02	28019	1.89
35	27990	.58	27996	1.08	28002	.88	28008	1.66	28014	1.32	28020	2.50
50	27991	.84	27997	1.56	28003	1.25	28009	2.38	28015	1.88	28021	3.56
75	27992	1.26	27998	2.38	28004	1.88	28010	3.56	28016	2.82	28022	5.34
100	27993	1.66	27999	3.12	28005	2.50	28011	4.66	28017	3.75	28023	7.00
					With Holders for National Electrical Code Fuses.							
15	28024	.56	28029	1.20	28034	.85	28039	1.80	28044	1.28	28049	2.70
25	28025	.68	28030	1.46	28035	1.04	28040	2.20	28045	1.56	28050	3.30
50	28026	1.16	28031	2.44	28036	1.75	28041	3.65	28046	2.62	28051	5.40
75	28027	1.70	28032	3.56	28037	2.56	28042	5.35	28047	3.84	28052	8.02
100	28028	2.34	28033	4.86	28038	3.50	28043	7.30	28048	5.24	28053	10.92

A. C. MOTOR SWITCHES.

A Switch for use with alternating current motors or any appliance that requires an excessive current for starting. The high contacts are connected with the outside fuses, which may be heavy enough to carry the starting current. When the motor is running at full speed the blades may be closed into the lower contacts, which are connected with the inside and lighter fuses. We are now making this in the following sizes and can furnish any special size to order.



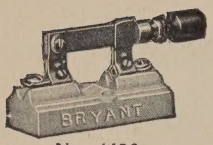
250 VOLTS.

	H P.	Starting Fuse.	Running Fuse.	Price.
28054	1	3-30	3-30	$4.50
28055	2	31-60	3-30	6.50
28056	3 to 4	61-100	31-60	13.00
28057	5	61-100	61-100	15.00
	600 VOLTS, 3-PHASE.			
28058	10 and less	3-30	3-30	9.00

BRYANT KNIFE SWITCHES.

BABY KNIFE SWITCHES.

National Electrical Code Standard. 125 Volts.



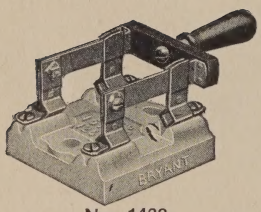
No. 1436.
(¼ Full Size.)

SINGLE POLE—PORCELAIN BASE.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadecid	1436	15 Ampere, S. P., S. T. Switch.	100	$0.34
Zadecif	1437	25 Ampere, S. P., S. T. Switch.	100	.44
Zadecig	1454	15 Ampere, S. P., D. T. Switch.	100	.60
Zadecih	1455	25 Ampere, S. P., D. T. Switch.	100	.74

SINGLE POLE—UNMOUNTED.

Zadecik	1442	15 Ampere, S. P., S. T. Switch.	100	.34
Zadecil	1443	25 Ampere, S. P., S. T. Switch.	100	.44
Zadecim	1448	15 Ampere, S. P., S. T. Switch, Fusible.	100	.48
Zadecin	1449	25 Ampere, S. P., S. T. Switch, Fusible.	100	.51
Zadecip	1460	15 Ampere, S. P., D. T. Switch.	100	.60
Zadecir	1461	25 Ampere, S. P., D. T. Switch.	100	.74
Zadecis	1466	15 Ampere, S. P., D. T. Switch, Fusible.	100	.72
Zadecit	1467	25 Ampere, S. P., D. T. Switch, Fusible.	100	.88



No. 1438.
(¼ Full Size.)

DOUBLE POLE—PORCELAIN BASE.

Zadeciv	1438	15 Ampere, D. P., S. T. Switch.	250	.42
Zadeciw	1439	25 Ampere, D. P., S. T. Switch.	250	.50
Zadecix	1456	15 Ampere, D. P., D. T. Switch.	100	.74
Zadeciy	1457	25 Ampere, D. P., D. T. Switch.	100	.90

DOUBLE POLE—UNMOUNTED.

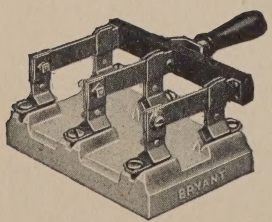
Zadeciz	1444	15 Ampere, D. P., S. T. Switch.	250	.42
Zadeco	1445	25 Ampere, D. P., S. T. Switch.	250	,50
Zadecob	1450	15 Ampere, D. P., S. T. Switch, Fusible.	250	.54
Zadecoc	1451	25 Ampere, D. P., S. T. Switch, Fusible.	250	.64
Zadecod	1462	15 Ampere, D. P., D. T. Switch.	100	.74
Zadecof	1463	25 Ampere, D. P., D. T. Switch.	100	.90
Zadecog	1468	15 Ampere, D. P., D. T. Switch, Fusible.	100	.98
Zadecoh	1469	25 Ampere, D. P., D. T. Switch, Fusible.	100	1.18

TRIPLE POLE—PORCELAIN BASE.

Zadecok	1440	15 Ampere, T. P., S. T. Switch.	25	.90
Zadecol	1441	25 Ampere, T. P., S. T. Switch.	25	1.10

TRIPLE POLE—UNMOUNTED.

Zadecom	1446	15 Ampere, T. P., S. T. Switch.	25	.90
Zadecon	1447	25 Ampere, T. P., S. T. Switch.	25	1.10
Zadecop	1452	15 Ampere, T. P., S. T. Switch, Fusible.	25	1.08
Zadecor	1453	25 Ampere, T. P., S. T. Switch, Fusible.	25	1.31
Zadecos	1464	15 Ampere. T. P., D. T. Switch.	10	1.20
Zadecot	1465	25 Ampere, T. P., D. T. Switch.	10	1.40
Zadecov	1470	15 Ampere. T. P., D. T. Switch, Fusible.	10	1.56
Zadecow	1471	25 Ampere, T. P., D. T. Switch, Fusible.	10	1.82

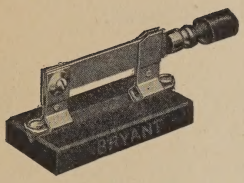


No. 1440.
(¼ Full Size.)

BRYANT KNIFE SWITCHES.

BABY KNIFE SWITCHES.

National Electrical Code Standard. 250 Volts.



No. 1636.

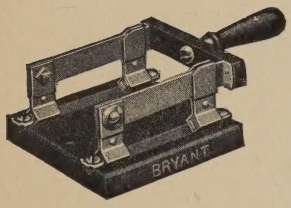
(¼ Full Size.)

SINGLE POLE—SLATE BASE.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadecox	1636	15 Amp., S. P., S. T. Switch.	100	$0.40
Zadecoy	1637	25 Amp., S. P., S. T. Switch.	100	.50
Zadecoz	1654	15 Amp., S. P., D. T. Switch.	100	.68
Zadecu	1655	25 Amp., S. P., D. T. Switch.	100	.84

SINGLE POLE—UNMOUNTED.

Zadecub	1642	15 Amp., S. P., S. T. Switch.	100	.40
Zadecuc	1643	25 Amp., S. P., S. T. Switch.	100	.50
Zadecud	1648	15 Amp., S. P., S. T. Switch, Fusible.	25	.46
Zadecuf	1649	25 Amp., S. P., S. T. Switch, Fusible.	25	.57
Zadecug	1660	15 Amp., S. P., D. T. Switch.	100	.68
Zadecuh	1661	25 Amp., S. P., D. T. Switch.	100	.84
Zadecuk	1666	15 Amp., S. P., D. T. Switch, Fusible.	100	.80
Zadecul	1667	25 Amp., S. P., D. T. Switch, Fusible.	100	.98



No. 1638.

(¼ Full Size.)

DOUBLE POLE—SLATE BASE.

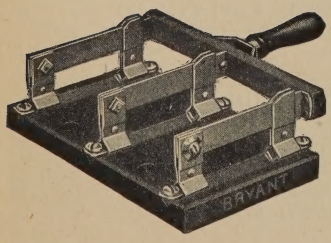
Zadecum	1638	15 Amp., D. P., S. T. Switch.	250	.50
Zadecun	1639	25 Amp., D. P., S. T. Switch.	250	.60
Zadecup	1656	15 Amp., D. P., D. T. Switch.	100	.86
Zadecur	1657	25 Amp., D. P., D. T. Switch.	100	1.04

DOUBLE POLE—UNMOUNTED.

Zadecus	1644	15 Amp., D. P., S. T. Switch.	250	.50
Zadecut	1645	25 Amp., D. P., S. T. Switch.	250	.60
Zadecuv	1650	15 Amp., D. P., S. T. Switch, Fusible.	250	.60
Zadecuw	1651	25 Amp., D. P., S. T. Switch, Fusible	250	.74
Zadecux	1662	15 Amp., D. P., D. T. Switch.	100	.86
Zadecuy	1663	25 Amp., D. P., D. T. Switch.	100	1.04
Zadecuz	1668	15 Amp., D. P., D. T. Switch, Fusible.	100	1.10
Zadeda	1669	25 Amp., D. P., D. T. Switch, Fusible.	100	1.32

TRIPLE POLE—SLATE BASE.

Zadedab	1640	15 Amp., T. P., S. T. Switch.	25	1.04
Zadedac	1641	25 Amp., T. P., S. T. Switch.	25	1.30
Zadedad	1658	15 Amp., T. P., D. T. Switch.	10	1.40
Zadedaf	1659	25 Amp., T. P., D. T. Switch.	10	1.64



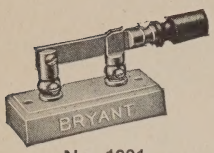
No. 1640.

(¼ Full Size.)

TRIPLE POLE—UNMOUNTED.

Zadedag	1646	15 Amp., T. P., S. T. Switch.	25	1.04
Zadedah	1647	25 Amp., T. P., S. T. Switch.	25	1.30
Zadedak	1652	15 Amp., T. P., S. T. Switch, Fusible.	25	1.22
Zadedal	1653	25 Amp., T. P., S. T. Switch, Fusible.	25	1.51
Zadedam	1664	15 Amp., T. P., D. T. Switch.	10	1.40
Zadedan	1665	25 Amp., T. P., D. T. Switch.	10	1.64
Zadedap	1670	15 Amp., T. P., D. T. Switch, Fusible.	10	1.76
Zadedar	1671	25 Amp., T. P., D. T. Switch, Fusible.	10	2.06

BRYANT KNIFE SWITCHES.



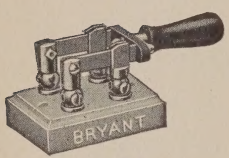
No. 1001.

(¼ Full Size.)

BABY KNIFE SWITCHES.

TYPE "A"—PORCELAIN BASE.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadedas	1001	15 Ampere, S. P., S. T..	100	$0.34
Zadedat	977	25 Ampere, S. P., S. T..	100	.44
Zadedav	1039	15 Ampere, S. P., D. T..	100	.60
Zadedaw	1040	25 Ampere, S. P., D. T..	100	.74
Zadedax	974	15 Ampere, D. P., S. T..	250	.42
Zadeday	978	25 Ampere, D. P., S. T..	250	.50
Zadedaz	1041	15 Ampere, D. P., D. T..	100	.74
Zadede	1042	25 Ampere, D. P., D. T..	100	.90
Zadedeb	1052	15 Ampere, T. P., S. T..	25	.90
Zadedec	979	25 Ampere, T. P., S. T..	25	1.10
Zadeded	1158	15 Ampere, T. P., D. T..	10	1.20
Zadedef	1159	25 Ampere, T. P., D. T..	10	1.40

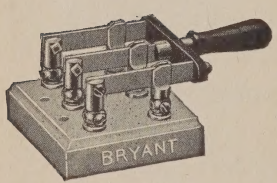


No. 974.

(¼ Full Size.)

TYPE "A"—UNMOUNTED.

Zadedeg	1048	15 Ampere, S. P., S. T..	100	.34
Zadedeh	1054	25 Ampere, S. P., S. T..	100	.44
Zadedek	1050	15 Ampere, S. P., D. T..	100	.60
Zadedel	1056	25 Ampere, S. P., D. T..	100	.74
Zadedem	1049	15 Ampere, D. P., S. T..	250	.42
Zadeden	1055	25 Ampere, D. P., S. T..	250	.50
Zadedep	1051	15 Ampere, D. P., D. T..	100	.74
Zadeder	1057	25 Ampere, D. P., D. T..	100	.90
Zadedes	1053	15 Ampere, T. P., S. T..	25	.90
Zadedet	1058	25 Ampere, T. P., S. T..	25	1.10
Zadedev	1150	15 Ampere, T. P., D. T..	10	1.20
Zadedew	1151	25 Ampere, T. P., D. T..	10	1.40

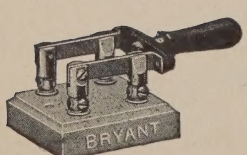


No. 1052.

(¼ Full Size.)

TYPE "B"—PORCELAIN BASE.

Zadedex	1245	15 Ampere, S. P., S. T..	100	.34
Zadedey	1246	25 Ampere, S. P., S. T..	100	.44
Zadedez	1102	15 Ampere, D. P., S. T..	250	.42
Zadedi	1074	25 Ampere, D. P., S. T..	250	.50



No. 1102.

(¼ Full Size.)

TYPE "B"—UNMOUNTED.

Zadedib	1283	15 Ampere, S. P., S. T..	100	.34
Zadedic	1284	25 Ampere, S. P., S. T..	100	.44
Zadedid	1103	15 Ampere, D. P., S. T..	250	.42
Zadedif	1075	25 Ampere, D. P., S. T..	250	.50

PERKINS KNIFE SWITCHES.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

With Connections for Enclosed Fuses.

Unmounted—Single Pole.

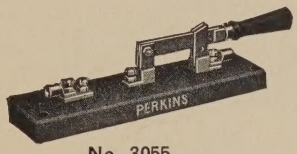
Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadegob	3518	25 Ampere, S. P., D. T.	—	$2.02
Zadegoc	3519	50 Ampere, S. P., D. T.	—	4.32
Zadegod	3520	75 Ampere, S. P., D. T.	—	6.00
Zadegof	3521	100 Ampere, S. P., D. T.	—	7.56
Zadegog	3522	200 Ampere, S. P., D. T.	—	12.24
Zadegoh	3523	300 Ampere, S. P., D. T.	—	15.48

Unmounted—Double Pole.

Zadegok	3524	25 Ampere, D. P., D. T.	—	2.59
Zadegol	3525	50 Ampere, D. P., D. T.	—	6.12
Zadegom	3526	75 Ampere, D. P., D. T.	—	8.25
Zadegon	3527	100 Ampere, D. P., D. T.	—	10.08
Zadegop	3528	200 Ampere, D. P., D. T.	—	18.36
Zadegor	3529	300 Ampere, D. P., D. T.	—	23.04

Blueprints, giving drilling dimensions for unmounted switches, will be furnished upon application.

SLATE BASE, WITH CONNECTIONS FOR OPEN FUSES.



No. 3055.
(1/5 Full Size.)

Zadegos	3043	25 Ampere, S. P. S. T., 1⅝ in. fuse centers	—	1.08
Zadegot	3055	35 Ampere, S. P., S. T., 1¾ in. fuse centers	—	1.44
Zadegov	3067	50 Ampere, S. P., S. T., 1⅞ in. fuse cetners	—	1.68
Zadegow	3079	75 Ampere, S. P., S. T., 2 in. fuse centers	—	2.40
Zadegox	3139	100 Ampere, S. P., S. T., 2⅛ in. fuse centers	—	3.24
Zadegoy	3046	25 Ampere, S. P., D. T., 1⅝ in. fuse centers	—	1.68
Zadegoz	3058	35 Ampere, S. P., D. T., 1¾ in. fuse centers	—	2.70
Zadegu	3070	50 Ampere, S. P., D. T., 1⅞ in. fuse centers	—	3.60
Zadegub	3082	75 Ampere, S. P., D. T., 2 in. fuse centers	—	4.80
Zadeguc	3142	100 Ampere, S. P., D. T., 2⅛ in. fuse centers	—	6.30

UNMOUNTED, WITH CONNECTIONS FOR OPEN FUSES.

Zadegud	3091	25 Ampere, S. P., S. T.	—	1.28
Zadeguf	3103	35 Ampere, S. P., S. T.	—	1.72
Zadegug	3115	50 Ampere, S. P., S. T.	—	2.10
Zadeguh	3127	75 Ampere, S. P., S. T.	—	2.88
Zadeguk	3151	100 Ampere, S. P., S. T.	—	3.88
Zadegul	3094	25 Ampere, S. P., D. T.	—	2.00
Zadegum	3106	35 Ampere, S. P., D. T.	—	3.24
Zadegun	3118	50 Ampere, S. P., D. T.	—	4.32
Zadegup	3130	75 Ampere, S. P., D. T.	—	5.76
Zadegur	3154	100 Ampere, S. P., D. T.	—	7.56

Blueprints, giving drilling dimensions for unmounted switches, will be furnished upon application.

PERKINS KNIFE SWITCHES.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

UNMOUNTED—NOT FUSIBLE.

Single Pole—Double Throw.

Code Word.	List No.		Std. Pkg.	List Price. Each.
Zadegel	3088	25 Ampere, S. P., D. T.	..	$1.50
Zadegem	3100	35 Ampere, S. P., D. T.	..	1.95
Zadegen	3112	50 Ampere, S. P., D. T.	..	2.88
Zadegep	3124	75 Ampere, S. P., D. T.	..	3.96
Zadeger	3148	100 Ampere, S. P., D. T.	..	5.04
Zadeges	3500	200 Ampere, S. P., D. T.	..	8.06
Zadeget	3501	300 Ampere, S. P., D. T.	..	10.37

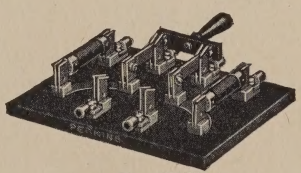
Double Pole—Double Throw.

Zadegev	3089	25 Ampere, D. P., D. T.	..	2.16
Zadegew	3101	35 Ampere, D. P., D. T.	..	3.02
Zadegex	3113	50 Ampere, D. P., D. T.	..	3.96
Zadegey	3125	75 Ampere, D. P., D. T.	..	5.76
Zadegez	3149	100 Ampere, D. P., D. T.	..	7.20
Zadegi	3502	200 Ampere, D. P., D. T.	..	11.50
Zadegib	3503	300 Ampere, D. P., D. T.	..	15.84

Triple Pole—Double Throw.

Zadegic	3090	25 Ampere, T. P., D. T.	..	3.24
Zadegid	3102	35 Ampere, T. P., D. T.	..	4.53
Zadegif	3114	50 Ampere, T. P., D. T.	..	6.12
Zadegig	3126	75 Ampere, T. P., D. T.	..	8.64
Zadegih	3150	100 Ampere, T. P., D. T.	..	11.16
Zadegik	3504	200 Ampere, T. P., D. T.	..	17.00
Zadegil	3505	300 Ampere, T. P., D. T.	..	24.50

Blueprints, giving drilling dimensions for unmounted switches, will be furnished upon application.



No. 3517.
(1-10 Full Size.)

WITH CONNECTIONS FOR ENCLOSED FUSES.

Single Base—Single Pole.

Zadegim	3506	25 Ampere, S. P., D. T.	..	1.68
Zadegin	3507	50 Ampere, S. P., D. T.	..	3.60
Zadegip	3508	75 Ampere, S. P., D. T.	..	5.00
Zadegir	3509	100 Ampere, S. P., D. T.	..	5.30
Zadegis	3510	200 Ampere, S. P., D. T.	..	10.20
Zadegit	3511	300 Ampere, S. P., D. T.	..	12.90

Slate Base—Double Pole.

Zadegiv	3512	25 Ampere, D. P., D. T.	..	2.16
Zadegiw	3513	50 Ampere, D. P., D. T.	..	5.10
Zadegix	3514	75 Ampere, D. P., D. T.	..	6.75
Zadegiy	3515	100 Ampere, D. P., D. T.	..	8.40
Zadegiz	3516	200 Ampere, D. P., D. T.	..	15.30
Zadego	3517	300 Ampere, D. P., D. T.	..	19.20

PERKINS KNIFE SWITCHES.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

SINGLE THROW—UNMOUNTED.

With Connections for Enclosed Fuses at the Bottom.

Code Word.	List No.		Std. Pkg.	List Price. Each.
Zadefuk	3248	25 Ampere, T. P., S. T.	..	$2.52
Zadeful	3249	50 Ampere, T. P., S. T.	..	4.03
Zadefum	3250	75 Ampere, T. P., S. T.	..	6.60
Zadefun	3263	100 Ampere, T. P., S. T.	..	8.20
Zadefup	3482	150 Ampere, T. P., S. T.	..	13.20
Zadefur	3483	200 Ampere, T. P., S. T.	..	15.00
Zadefus	3484	250 Ampere, T. P., S. T.	..	19.20
Zadefut	3485	300 Ampere, T. P., S. T.	..	21.00
Zadefuv	3486	400 Ampere, T. P., S. T.	..	28.25
Zadefuw	3487	500 Ampere, T. P., S. T.	..	36.00

With Connections for Enclosed Fuses at the Top.

Zadefux	3295	25 Ampere, T. P., S. T.	..	2.52
Zadefuy	3296	50 Ampere, T. P., S. T.	..	4.03
Zadefuz	3297	75 Ampere, T. P., S. T.	..	6.60
Zadega	3298	100 Ampere, T. P., S. T.	..	8.20
Zadegab	3488	150 Ampere, T. P., S. T.	..	13.20
Zadegac	3489	200 Ampere, T. P., S. T.	..	15.00
Zadegad	3490	250 Ampere, T. P., S. T.	..	19.20
Zadegaf	3491	300 Ampere, T. P., S. T.	..	21.00
Zadegag	3492	400 Ampere, T. P., S. T.	..	28.25
Zadegah	3493	500 Ampere, T. P., S. T.	..	36.00

Fuses, for use in connection with the switches listed above, are shown elsewhere.
Blueprints, giving drilling dimensions for unmounted switches, will be furnished upon application.

No. 3054.
(1/8 Full Size.)

SLATE BASE—NOT FUSIBLE.

Single Pole—Double Throw.

Zadegak	3040	25 Ampere, S. P., D. T.	..	1.26
Zadegal	3052	35 Ampere, S. P., D. T.	..	1.62
Zadegam	3064	50 Ampere, S. P., D. T.	..	2.40
Zadegan	3076	75 Ampere, S. P., D. T.	..	3.30
Zadegap	3136	100 Ampere, S. P., D. T.	..	4.20
Zadegar	3494	200 Ampere, S. P., D. T.	..	6.72
Zadegas	3495	300 Ampere, S. P., D. T.	..	8.64

Double Pole—Double Throw.

Zadegat	3041	25 Ampere, D. P., D. T.	..	1.80
Zadegav	3053	35 Ampere, D. P., D. T.	..	2.52
Zadegaw	3065	50 Ampere, D. P., D. T.	..	3.30
Zadegax	3077	75 Ampere, D. P., D. T.	..	4.80
Zadegay	3137	100 Ampere, D. P., D. T.	..	6.00
Zadegaz	3496	200 Ampere, D. P., D. T.	..	9.50
Zadege	3497	300 Ampere, D. P., D. T.	..	13.20

Triple Pole—Double Throw.

Zadegeb	3042	25 Ampere, T. P., D. T.	..	2.70
Zadegec	3054	35 Ampere, T. P., D. T.	..	3.70
Zadeged	3066	50 Ampere, T. P., D. T.	..	5.10
Zadegef	3078	75 Ampere, T. P., D. T.	..	7.20
Zadegeg	3138	100 Ampere, T. P., D. T.	..	9.30
Zadegeh	3498	200 Ampere, T. P., D. T.	..	14.00
Zadegek	3499	300 Ampere, T. P., D. T.	..	20.00

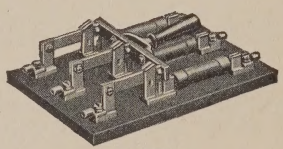
PERKINS KNIFE SWITCHES.

National Electrical Code Standard. 250 Volts.

SINGLE THROW—UNMOUNTED.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadefiw	3087	25 Ampere, T. P., S. T.	....	$2.00
Zadefix	3099	35 Ampere, T. P., S. T.	....	2.88
Zadefiy	3111	50 Ampere, T. P., S. T.	....	3.30
Zadefiz	3123	75 Ampere, T. P., S. T.	....	4.96
Zadefo	3147	100 Ampere, T. P., S. T.	....	6.48
Zadefob	3464	150 Ampere, T. P., S. T.	....	9.40
Zadefoc	3465	200 Ampere, T. P., S. T.	....	10.75
Zadefod	3466	250 Ampere, T. P., S. T.	....	14.25
Zadefof	3467	300 Ampere, T. P., S. T.	....	15.48
Zadefog	3468	400 Ampere, T. P., S. T.	....	21.00
Zadefoh	3469	500 Ampere, T. P., S. T.	....	27.00

Blueprints, giving drilling dimensions for unmounted switches, will be furnished upon application.



No. 3293.
(1/10 Full Size.)

SINGLE THROW—SLATE BASE.

With Connections for Enclosed Fuses at the Bottom.

Zadefok	3244	25 Ampere, T. P., S. T.	....	2.10
Zadefol	3245	50 Ampere, T. P., S. T.	....	3.36
Zadefom	3246	75 Ampere, T. P., S. T.	....	5.28
Zadefon	3247	100 Ampere, T. P., S. T.	....	6.84
Zadefop	3470	150 Ampere, T. P., S. T.	....	11.40
Zadefor	3471	200 Ampere, T. P., S. T.	....	12.75
Zadefos	3472	250 Ampere, T. P., S. T.	....	16.50
Zadefot	3473	300 Ampere, T. P., S. T.	....	18.00
Zadefov	3474	400 Ampere, T. P., S. T.	....	24.00
Zadefow	3475	500 Ampere, T. P., S. T.	....	30.00

With Connections for Enclosed Fuses at the Top.

Zadefox	3291	25 Ampere, T. P., S. T.	....	2.10
Zadefoy	3292	50 Ampere, T. P., S. T.	....	3.36
Zadefoz	3293	75 Ampere, T. P., S. T.	....	5.28
Zadefu	3294	100 Ampere, T. P., S. T.	....	6.84
Zadefub	3476	150 Ampere, T. P., S. T.	....	11.40
Zadefuc	3477	200 Ampere, T. P., S. T.	....	12.75
Zadefud	3478	250 Ampere, T. P., S. T.	....	16.50
Zadefuf	3479	300 Ampere, T. P., S. T.	....	18.00
Zadefug	3480	400 Ampere, T. P., S. T.	....	24.00
Zadefuh	3481	500 Ampere, T. P., S. T.	....	30.00

Fuses for use in connection with the switches listed above are shown elsewhere.

PERKINS KNIFE SWITCHES.

National Electrical Code Standard. 250 Volts.

SINGLE THROW—UNMOUNTED.

With Connections for Enclosed Fuses at the Bottom.

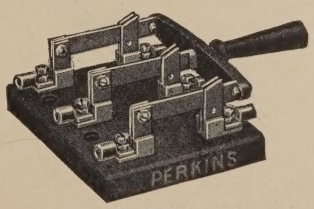
Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadefeg	3240	25 Ampere, D. P., S. T.	....	$1.58
Zadefeh	3241	50 Ampere, D. P., S. T.	....	2.60
Zadefek	3242	75 Ampere, D. P., S. T.	....	3.96
Zadefel	3243	100 Ampere, D. P., S. T.	....	5.04
Zadefem	3446	150 Ampere, D. P., S. T.	....	8.80
Zadefen	3447	200 Ampere, D. P., S. T.	....	9.75
Zadefep	3448	250 Ampere, D. P., S. T.	....	13.00
Zadefer	3449	300 Ampere, D. P., S. T.	....	14.04
Zadefes	3450	400 Ampere, D. P., S. T.	....	18.60
Zadefet	3451	500 Ampere, D. P., S. T.	....	24.00

With Connections for Enclosed Fuses at the Top.

Zadefev	3282	25 Ampere, D. P., S. T.	....	1.58
Zadefew	3283	50 Ampere, D. P., S. T.	....	2.60
Zadefex	3289	75 Ampere, D. P., S. T.	....	3.96
Zadefey	3290	100 Ampere, D. P., S. T.	....	5.04
Zadefez	3452	150 Ampere, D. P., S. T.	....	8.80
Zadefi	3453	200 Ampere, D. P., S. T.	....	9.75
Zadefib	3454	250 Ampere, D. P., S. T.	....	13.00
Zadefic	3455	300 Ampere, D. P., S. T.	....	14.04
Zadefid	3456	400 Ampere, D. P., S. T.	....	18.60
Zadefif	3457	500 Ampere, D. P., S. T.	....	24.00

Fuses for use in connection with the switches listed above are shown elsewhere.

Blueprints, giving drilling dimensions for unmounted switches, will be furnished upon application.



No. 3051.
(1/5 Full Size.)

SINGLE THROW—SLATE BASE.

Not Fusible.

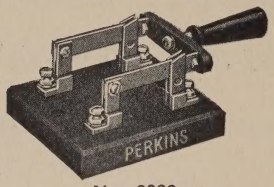
Zadefig	3039	25 Ampere, T. P., S. T.	....	1.68
Zadefih	3051	35 Ampere, T. P., S. T.	....	2.40
Zadefik	3063	50 Ampere, T. P., S. T.	....	2.76
Zadefil	3075	75 Ampere, T. P., S. T.	....	4.14
Zadefim	3135	100 Ampere, T. P., S. T.	....	5.40
Zadefin	3458	150 Ampere, T. P., S. T.	....	7.50
Zadefip	3459	200 Ampere, T. P., S. T.	....	8.75
Zadefir	3460	250 Ampere, T. P., S. T.	....	11.25
Zadefis	3461	300 Ampere, T. P., S. T.	....	12.90
Zadefit	3462	400 Ampere, T. P., S. T.	....	17.00
Zadefiv	3463	500 Ampere, T. P., S. T.	....	21.00

PERKINS KNIFE SWITCHES.

National Electrical Code Standard. 250 Volts.

SINGLE THROW—SLATE BASE.

Not Fusible.



No. 3038.
(¼ Full Size.)

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadedud	3038	25 Amperes, D. P., S. T.	..	$0.96
Zadeduf	3050	35 Amperes, D. P., S. T.	..	1.50
Zadedug	3062	50 Amperes, D. P., S. T.	..	1.80
Zadeduh	3074	75 Amperes, D. P., S. T.	..	2.70
Zadeduk	3134	100 Amperes, D. P., S. T.	..	3.36
Zadedul	3396	150 Amperes, D. P., S. T.	..	5.00
Zadedum	3397	200 Amperes, D. P., S. T.	..	5.75
Zadedun	3398	250 Amperes, D. P., S. T.	..	7.50
Zadedup	3399	300 Amperes, D. P., S. T.	..	8.64
Zadedur	3426	400 Amperes, D. P., S. T.	..	11.50
Zadedus	3427	500 Amperes, D. P., S. T.	..	14.00

SINGLE THROW—UNMOUNTED.

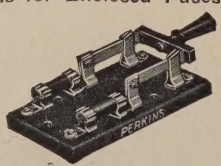
Not Fusible.

Zadedut	3086	25 Amperes, D. P., S. T.	..	1.15
Zadeduv	3098	35 Amperes, D. P., S. T.	..	1.80
Zadeduw	3110	50 Amperes, D. P., S. T.	..	2.16
Zadedux	3122	75 Amperes, D. P., S. T.	..	3.24
Zadeduy	3146	100 Amperes, D. P., S. T.	..	3.77
Zadeduz	3428	150 Amperes, D. P., S. T.	..	6.25
Zadefa	3429	200 Amperes, D. P., S. T.	..	7.25
Zadefab	3430	250 Amperes, D. P., S. T.	..	9.50
Zadefac	3431	300 Amperes, D. P., S. T.	..	10.37
Zadefad	3432	400 Amperes, D. P., S. T.	..	14.00
Zadefaf	3433	500 Amperes, D. P., S. T.	..	18.00

Blueprints, giving drilling dimensions for unmounted switches, will be furnished upon application.

SINGLE THROW—SLATE BASE.

With Connections for Enclosed Fuses at the Bottom.



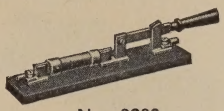
No. 3237.
(¼ Full Size.)

Zadefag	3236	25 Amperes, D. P., S. T.	..	1.32
Zadefah	3237	50 Amperes, D. P., S. T.	..	2.16
Zadefak	3238	75 Amperes, D. P., S. T.	..	3.30
Zadefal	3239	100 Amperes, D. P., S. T.	..	4.20
Zadefam	3434	150 Amperes, D. P., S. T.	..	7.60
Zadefan	3435	200 Amperes, D. P., S. T.	..	8.50
Zadefap	3436	250 Amperes, D. P., S. T.	..	11.00
Zadefar	3437	300 Amperes, D. P., S. T.	..	11.70
Zadefas	3438	400 Amperes, D. P., S. T.	..	16.00
Zadefat	3439	500 Amperes, D. P., S. T.	..	20.00
		With Connections for Enclosed Fuses at the Top.		
Zadefav	3278	25 Amperes, D. P., S. T.	..	1.32
Zadefaw	3279	50 Amperes, D. P., S. T.	..	2.16
Zadefax	3280	75 Amperes, D. P., S. T.	..	3.30
Zadefay	3281	100 Amperes, D. P., S. T.	..	4.20
Zadefaz	3440	150 Amperes, D. P., S. T.	..	7.60
Zadefe	3441	200 Amperes, D. P., S. T.	..	8.50
Zadefeb	3442	250 Amperes, D. P., S. T.	..	11.00
Zadefec	3443	300 Amperes, D. P., S. T.	..	11.70
Zadefed	3444	400 Amperes, D. P., S. T.	..	16.00
Zadefef	3445	500 Amperes, D. P., S. T.	..	20.00

Fuses for use in connection with switches listed above are shown elsewhere.

PERKINS KNIFE SWITCHES.

National Electrical Code Standard. 250 Volts.



No. 3230.
(1/10 Full Size.)

SINGE THROW—SLATE BASE.

Not Fusible.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadedig	3037	25 Amperes, S. P., S. T.	..	$0.72
Zadedih	3049	35 Amperes, S. P., S. T.	..	1.08
Zadedik	3061	50 Amperes, S. P., S. T.	..	1.32
Zadedil	3073	75 Amperes, S. P., S. T.	..	1.80
Zadedim	3133	100 Amperes, S. P., S. T.	..	2.40
Zadedin	3382	200 Amperes, S. P., S. T.	..	3.90
Zadedip	3383	300 Amperes, S. P., S. T.	..	5.70

With Connections for Fuses at the Bottom.

Zadedir	3228	25 Amperes, S. P., S. T.	..	1.08
Zadedis	3229	50 Amperes, S. P., S. T.	..	1.68
Zadedit	3230	75 Amperes, S. P., S. T.	..	2.40
Zadediv	3231	100 Amperes, S. P., S. T.	..	3.24
Zadediw	3384	200 Amperes, S. P., S. T.	..	5.75
Zadedix	3385	300 Amperes, S. P., S. T.	..	7.75

With Connections for Enclosed Fuses at the Top.

Zadediy	3270	25 Amperes, S. P., S. T.	..	1.08
Zadediz	3271	50 Amperes, S. P., S. T.	..	1.68
Zadedo	3272	75 Amperes, S. P., S. T.	..	2.40
Zadedob	3273	100 Amperes, S. P., S. T.	..	3.24
Zadedoc	3388	200 Amperes, S. P., S. T.	..	5.75
Zadedod	3389	300 Amperes, S. P., S. T.	..	7.75

SINGLE THROW—UNMOUNTED.

Not Fusible.

Zadedof	3085	25 Amperes, S. P., S. T.	..	.86
Zadedog	3097	35 Amperes, S. P., S. T.	..	1.30
Zadedoh	3109	50 Amperes, S. P., S. T.	..	1.58
Zadedok	3121	75 Amperes, S. P., S. T.	..	2.16
Zadedol	3145	100 Amperes, S. P., S. T.	..	2.80
Zadedom	3390	200 Amperes, S. P., S. T.	..	4.75
Zadedon	3391	300 Amperes, S. P., S. T.	..	6.84

With Connections for Enclosed Fuses at the Bottom.

Zadedop	3232	25 Amperes, S. P., S. T.	..	1.30
Zadedor	3233	50 Amperes, S. P., S. T.	..	2.00
Zadedos	3234	75 Amperes, S. P., S. T.	..	2.88
Zadedot	3235	100 Amperes, S. P., S. T.	..	3.90
Zadedov	3392	200 Amperes, S. P., S. T.	..	6.60
Zadedow	3393	300 Amperes, S. P., S. T.	..	9.24

With Connections for Enclosed Fuses at the Top.

Zadedox	3274	25 Amperes, S. P., S. T.	..	1.30
Zadedoy	3275	50 Amperes, S. P., S. T.	..	2.00
Zadedoz	3276	75 Amperes, S. P., S. T.	..	2.88
Zadedu	3277	100 Amperes, S. P., S. T.	..	3.90
Zadedub	3394	200 Amperes, S. P., S. T.	..	6.60
Zadeduc	3395	300 Amperes, S. P., S. T.	..	9.24

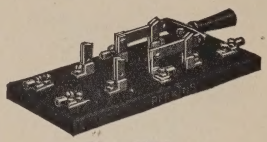
Fuses for use in connection with fusible switches listed above are shown on pages 168 and 169.

Blueprints, giving drilling dimensions for unmounted switches, will be furnished upon application.

PERKINS KNIFE SWITCHES.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

SLATE BASE, WITH CONNECTIONS FOR OPEN FUSES.



No. 3059.
(1/8 Full Size.)

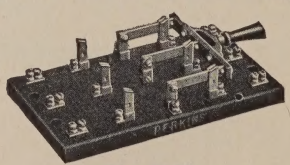
Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadegus	3044	25 Ampere, D. P., S. T., 1⅝ in. fuse centers	..	$1.32
Zadegut	3056	35 Ampere, D. P., S. T., 1¾ in. fuse centers	..	1.92
Zadeguv	3068	50 Ampere, D. P., S. T., 1⅞ in. fuse centers	..	2.16
Zadeguw	3080	75 Ampere, D. P., S. T., 2 in. fuse centers	..	3.30
Zadegux	3140	100 Ampere, D. P., S. T., 2⅛ in. fuse centers	..	4.20
Zadeguy	3047	25 Ampere, D. P., S. T., 1⅝ in. fuse centers	..	2.16
Zadeguz	3059	35 Ampere, D. P., D. T., 1¾ in. fuse centers	..	3.60
Zadeha	3071	50 Ampere, D. P., D. T., 1⅞ in. fuse centers	..	5.10
Zadehab	3083	75 Ampere, D. P., D. T., 2 in. fuse centers	..	6.60
Zadehac	3143	100 Ampere, D. P., D. T., 2⅛ in. fuse centers	..	8.40

UNMOUNTED, WITH CONNECTIONS FOR OPEN FUSES.

Zadehad	3092	25 Ampere, D. P., S. T	..	1.58
Zadehaf	3104	35 Ampere, D. P., S. T	..	2.30
Zadehag	3116	50 Ampere, D. P., S. T	..	2.58
Zadehah	3128	75 Ampere, D. P., S. T	..	3.96
Zadehak	3152	100 Ampere, D. P., S. T	..	5.04
Zadehal	3095	25 Ampere, D. P., D. T	..	2.58
Zadeham	3107	35 Ampere, D. P., D. T	..	4.32
Zadehan	3119	50 Ampere, D. P., D. T	..	6.12
Zadehap	3131	75 Ampere, D. P., D. T	..	7.92
Zadehar	3155	100 Ampere, D. P., D. T	..	10.08

Blueprints, giving drilling dimensions for unmounted switches, will be furnished upon application.

SLATE BASE, WITH CONNECTIONS FOR OPEN FUSES.



No. 3048.
(1-10 Full Size.)

Zadehas	3045	25 Ampere, T. P., S. T., 1⅝ in. fuse centers	..	2.10
Zadehat	3057	35 Ampere, T. P., S. T., 1¾ in. fuse centers	..	3.00
Zadehav	3069	50 Ampere, T. P., S. T., 1⅞ in. fuse centers	..	3.36
Zadehaw	3081	75 Ampere, T. P., S. T., 2 in. fuse centers	..	5.28
Zadehax	3141	100 Ampere, T. P., S. T., 2⅛ in. fuse centers	..	6.84
Zadehay	3048	25 Ampere, T. P., D. T., 1⅝ in. fuse centers	..	3.60
Zadehaz	3060	35 Ampere, T. P., D. T., 1¾ in. fuse centers	..	5.76
Zadehe	3072	50 Ampere, T. P., D. T., 1⅞ in. fuse centers	..	7.80
Zadeheb	3084	75 Ampere, T. P., D. T., 2 in. fuse centers	..	10.50
Zadehec	3144	100 Ampere, T. P., D. T., 2⅛ in. fuse centers	..	11.70

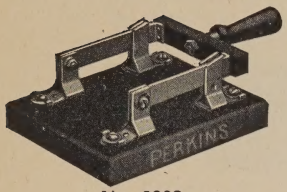
UNMOUNTED, WITH CONNECTIONS FOR OPEN FUSES.

Zadehed	3093	25 Ampere, T. P., S. T	..	2.46
Zadehef	3105	35 Ampere, T. P., S. T	..	3.60
Zadeheg	3117	50 Ampere, T. P., S. T	..	4.03
Zadeheh	3129	75 Ampere, T. P., S. T	..	6.30
Zadehek	3153	100 Ampere, T. P., S. T	..	8.20
Zadehel	3096	25 Ampere, T. P., D. T	..	4.32
Zadehem	3108	35 Ampere, T. P., D. T	..	6.91
Zadehen	3120	50 Ampere, T. P., D. T	..	9.36
Zadehep	3132	75 Ampere, T. P., D. T	..	12.60
Zadeher	3156	100 Ampere, T. P., D. T	..	14.04

Blueprints, giving drilling dimensions for unmounted switches, will be furnished upon application.

PERKINS KNIFE SWITCHES.

NATIONAL ELECTRICAL CODE STANDARD—250 VOLTS.



No. 3008.
(1-3 Full Size.)

DOUBLE POLE, SINGLE THROW, SLATE BASE.

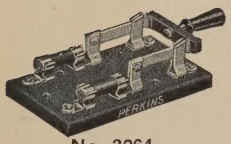
Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadeleg	3008	25 amperes D. P., S. T.....	50	$0.80

With Connections for Open Fuses.

2⅛ Inches on Center.

Zadeleh	3009	25 amperes, D. P., S. T.....	25	1.08

With Connections for Enclosed Fuses at the Bottom.



No. 3264.
(¼ Full Size.)

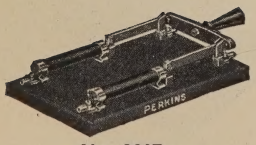
Zadelek	3264	25 amperes, D. P., S. T.....	25	1.20

With Connections for Enclosed Fuses at the Top.

Zadeler	3299	25 amperes, D. P., S. T.....	..	1.20

600 VOLT KNIFE SWITCHES.

NATIONAL ELECTRICAL CODE STANDARD—SLATE BASE.



No. 3267.
(1-10 Full Size.)

Zadeles	3215	25 amperes, S. P., S. T.....	..	1.08
Zadelet	3216	50 amperes, S. P., S. T.....	..	1.68
Zadelev	3217	25 amperes, D. P., S. T.....	..	2.00
Zadelew	3218	50 amperes, D. P., S. T.....	..	2.64

With Connections for Enclosed Fuses at the Bottom.

Zadelex	3265	25 amperes, S. P., S. T.....	..	1.63
Zadeley	3266	50 amperes, S. P., S. T.....	..	2.52
Zadelez	3267	25 amperes, D. P., S. T.....	..	2.40
Zadeli	3268	50 amperes, D. P., S. T.....	..	3.60

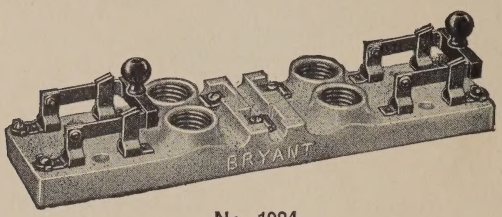
These Switches are specially constructed for high voltage work, all parts being much heavier than in 250-volt switches of the same amperage, to insure ample mechanical strength.

Fuses for use in connection with fusible switches listed elsewhere.

BRYANT SWITCHES.

WITH CONNECTIONS FOR PLUG FUSES.

NATIONAL ELECTRICAL CODE STANDARD—125 VOLTS.



No. 1984.
(1-6 Full Size.)

25 Amp. Double Pole Entrance Switch.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadelap	1695	Fuses at the top	100	$0.90
Zadelar	1981	Fuses at the bottom	100	.90

15 Amp. Double Pole, Single Branch, Panel Switch.

Zadelas	1851	Fuses at the top	100	1.00
Zadelat	1982	Fuses at the bottom	100	1.00

15 Amp. Double Pole, Double Branch, Panel Switch.

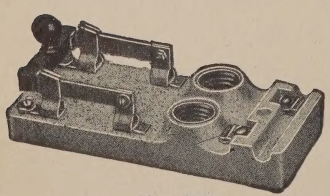
Zadelav	1852	For vertical mains	50	2.00
Zadelaw	1983	For horizontal mains	50	2.00

15 Amp. T. P. to D. P., Double Branch, Panel Switch.

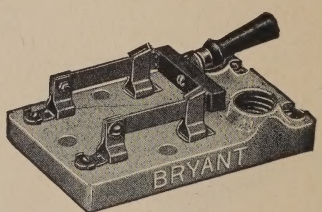
Zadelax	1947	For vertical mains	50	2.10
Zadelay	1984	For horizontal mains	50	2.10

These Switches are spaced according to the requirements of the code for circuits of 125 volts.

NATIONAL ELECTRICAL CODE STANDARD—250 VOLTS.



No. 1987.
(1-6 Full Size.)



No. 1692.
(1-6 Full Size.)

25 Amp. Double Pole Entrance Switch.

Zadelaz	1692	Fuses at the top	100	1.00
Zadele	1985	Fuses at the bottom	100	1.00

25 Amp. Triple Pole Entrance Switch.

Zadeleb	1693	Fuses at the top	50	1.40
Zadelec	1986	Fuses at the bottom	50	1.40

25 Amp. D. P., Single Branch, Panel Switch.

Zadeled	1694	Fuses at the top	50	1.10
Zadelef	1987	Fuses at the bottom	50	1.10

These Switches will be approved on 250 volt circuits only when the Plug Fuses shown elsewhere are used. If Edison Plug Fuses are used they will not be approved on circuits above 125 volts.

PAISTE PANEL CUT-OUTS FOR ROTARY SWITCHES.

NATIONAL ELECTRICAL CODE STANDARD.

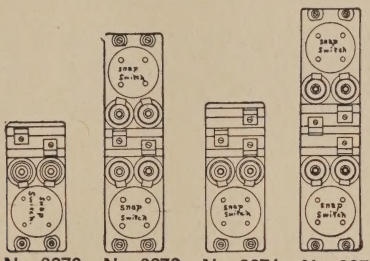
We present below a new line of Panel Cut-Outs having special claims for your careful consideration.

In place of knife switches for the different branch circuits we have arranged the blocks to receive the standard types of Snap Switches.

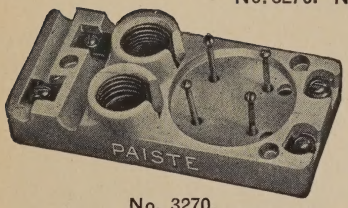
In putting these into service you can use a "Hart," "Diamond H," "Perkins" or an "Arrow P" 10-amp. D. P. Snap Switch, and each will be found to fit perfectly.

This gives you your choice of switch to be used—a most desirable feature as most users of snap switches have decided preference as to the kind to be installed.

Should a switch break down it can be quickly and easily removed and another put in its place without any trouble.



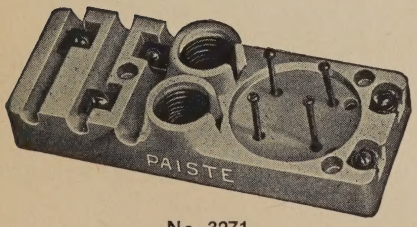
No. 3270. No. 3272. No. 3271. No. 3273.



No. 3270.

SINGLE BRANCH.

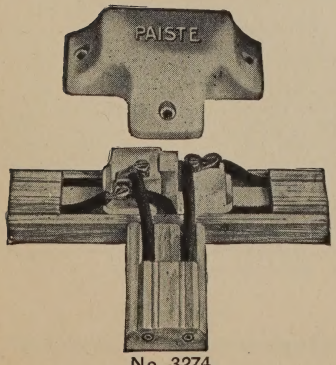
Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zademub	3270	5190	2 wire.....	50	$0.70
Zademuc	3271	5191	3 to 2 wire.	50	.80



No. 3271.

DOUBLE BRANCH.

Zademud	3272	5192	2 wire.....	25	1.30
Zademuf	3273	5193	3 to 2 wire.	25	1.40



No. 3274.

PAISTE MOLDING TAPLETS

NATIONAL ELECTRICAL CODE STANDARD.

These molding "Taplets" are designed to do away with that troublesome job of taking off branch circuits from molding wiring.

They are made on the Fielding principle and set on top of the molding base. The main wires are run through the taplet and skinned ¼ inch to set under the contact screws, while the branch circuits are carried off in the branch molding from other contact screws.

Zademug	3274	4090	2 wire single branch ...100	.30
Zademuh	3275	4091	3 wire single branch ... 50	.45
Zademuk	3276	4092	3 wire to 2 wire single branch ... 50	.40
Zademul	3277	4093	3 wire to 2 wire double branch ... 25	.60
Zademum	3278	4094	2 wire double branch ... 25	.45

PAISTE PANELETTES.

(Name Reg. U. S. Patent Office.)

Panelettes is the name given to this new line of tablet boards whose design closely follows that of a combination of our panel cut outs.

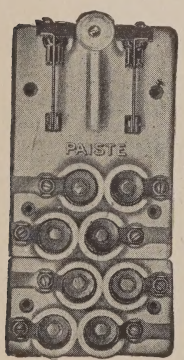
They are made in three styles, for two and three wire systems, both with and without branch switches.

Each Panelette is built up from similar units to any desired size.

All connections are made by links on the back, thus securing a uniformly neat appearance to the block, and all troublesome wiring on the front is by this means done away with.

It will also be found that the spacing of the knife switch blades of two adjacent blocks is according to the rules of the Fire Underwriters' Association.

These Panelettes cover three styles, as follows: "A," with main switch, no branch switches. "B," with main switch and fuses, no branch switches. "C," without main, switch or fuse, with branch switches.



No. 4970.
(1-5 Full Size.)

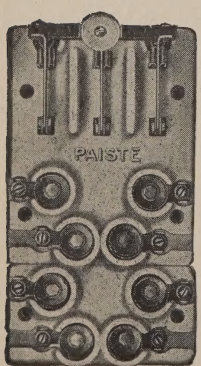
FOR TWO WIRE SYSTEMS.

TYPE "A."

Code Word.	List No.	Mfr. No.	No. Circuits.		List Price, Each.
Zabibih	4969	5110	2	With 30 amp. Switch.....	$1.40
Zabibik	4970	5111	4	With 30 amp. Switch.....	2.05
Zabibil	4971	5112	6	With 30 amp. Switch.....	2.70
Zabibim	4840	5113	8	With 60 amp. Switch.....	4.05
Zabibin	4841	5114	10	With 60 amp. Switch.....	4.70
Zademib	4805	5115	12	With 60 amp. Switch.....	5.35

TYPE "B."

Zademic	4806	5300	2	With 30 amp. Switch and Fuse	1.80
Zademid	4807	5301	4	With 30 amp. Switch and Fuse	2.45
Zadmif	4808	5302	6	With 30 amp. Switch and Fuse	3.10
Zademig	4809	5303	8	With 60 amp. Switch and Fuse	4.55
Zademih	4810	5304	10	With 60 amp. Switch and Fuse	5.20
Zademik	4811	5305	12	With 60 amp. Switch and Fuse	5.85



No. 4843.
(1-5 Full Size.)

FOR THREE WIRE SYSTEMS.

TYPE "A."

Zabibip	4842	5120	2	With 30 amp. Switch.....	2.05
Zabibir	4843	5121	4	With 30 amp. Switch.....	2.75
Zabibis	4844	5122	6	With 30 amp. Switch.....	3.45
Zabibit	4845	5123	8	With 30 amp. Switch.....	4.15
Zabibiv	4846	5124	10	With 30 amp. Switch.....	4.85
Zabibiw	4847	5125	12	With 60 amp. Switch.....	6.45
Zabibix	4848	5126	14	With 60 amp. Switch.....	7.15
Zabibiy	4849	5127	16	With 60 amp. Switch.....	7.85
Zabibiz	4850	5128	18	With 60 amp. Switch.....	8.55
Zabibo	4851	5129	20	With 60 amp. Switch.....	9.25

Any assortment of Panelettes making 100 circuits constitutes a standard package.

Prices of type "A" and "B" do not include the necessary enclosed fuses.

PAISTE PANELETTES.

(Name Reg. U. S. Patent Office.)

TYPE "B."

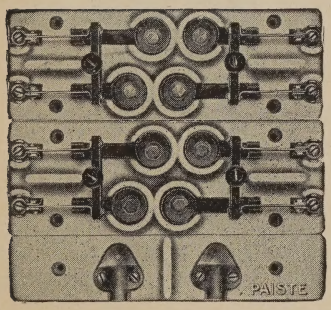
FOR THREE WIRE SYSTEMS.

Code Word.	List No.	Mfr. No.	No. Circuits.	List Price, Each.
Zademeb	4972	5315	2 with 30 ampere switch and fuse	$2.65
Zademec	4973	5316	4 with 30 ampere switch and fuse	3.35
Zademed	4974	5317	6 with 30 ampere switch and fuse	4.05
Zademef	4975	5318	8 with 30 ampere switch and fuse	4.75
Zademeg	4976	5319	10 with 30 ampere switch and fuse	5.45
Zademeh	4977	5320	12 with 60 ampere switch and fuse	7.20
Zademek	4978	5321	14 with 60 ampere switch and fuse	7.90
Zademel	4979	5322	16 with 60 ampere switch and fuse	8.60
Zademem	4980	5323	18 with 60 ampere switch and fuse	9.30
Zademen	4981	5324	20 with 60 ampere switch and fuse	10.00

TYPE "C."

FOR TWO WIRE SYSTEM.

With Branch Switches.

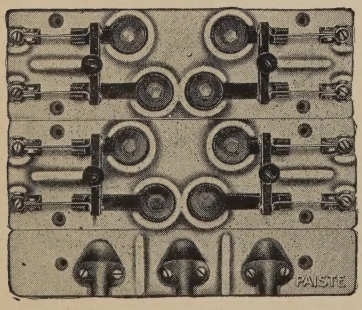


No. 4854.
(1-5 Full Size.)

			Capacity.	
Zabibob	4852	5130	2 circuits	$2.50
Zabibod	4853	5131	4 circuits	4.60
Zabibof	4854	5132	6 circuits	6.70
Zabibog	4855	5133	8 circuits	8.80
Zabiboh	4856	5134	10 circuits	10.90
Zabibok	4857	5135	12 circuits	13.00
Zabibol	4858	5136	14 circuits	15.10
Zabibom	4859	5137	16 circuits	17.20
Zabibon	4860	5138	18 circuits	19.30
Zabibop	4861	5139	20 circuits	21.40

FOR THREE WIRE SYSTEM.

With Branch Switches.



No. 4863.
(1-5 Full Size.)

Zabibor	4862	5140	2 circuits	2.75
Zabibos	4863	5141	4 circuits	5.00
Zabibot	4864	5142	6 circuits	7.25
Zabibov	4865	5143	8 circuits	9.50
Zabibow	4866	5144	10 circuits	11.75
Zabibox	4867	5145	12 circuits	14.00
Zabiboy	4868	5146	14 circuits	16.25
Zabiboz	4869	5147	16 circuits	18.50
Zabibu	4870	5148	18 circuits	20.75
Zabibub	4871	5149	20 circuits	23.00

Any assortment of Panelettes making 100 circuits constitutes a standard package.

List prices of Type "A" and "B" Panelettes do not include necessary enclosed fuses.

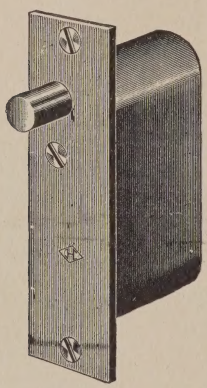
"DIAMOND H" SWITCHES.

AUTOMATIC DOOR SWITCH.

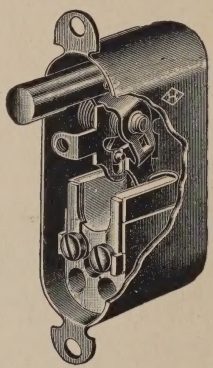
This Switch is thoroughly insulated with sheet mica and has a quick, positive action when the plunger is pressed or released. It is practically indestructible. Face plate is of liberal dimensions, but smaller plates can be furnished, when required, without extra charge. Made in two styles.

No. 601, light "On" when door is open.

No. 602, light "Off" when door is open.

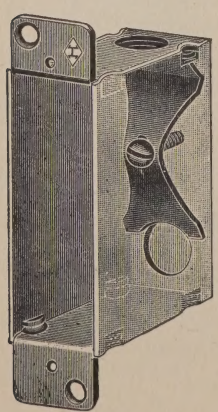


Door Switch Complete.



Door Switch Only.

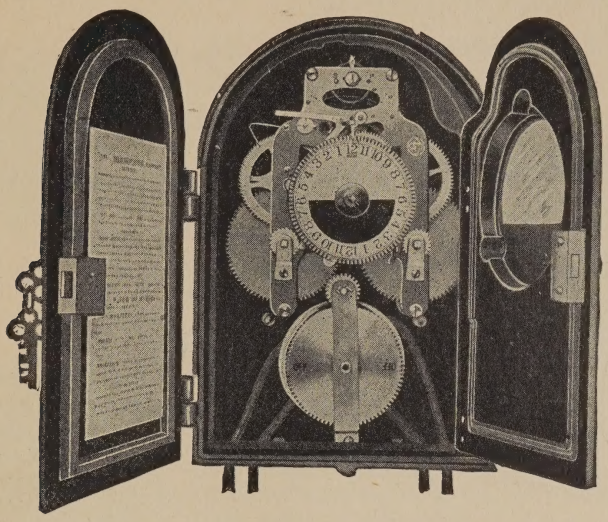
Code Word.	List No.	Mfr. No.		List Price, Each.
Zacacaw	13274	601	Light on when door is open	$2.50
Zacacax	13275	602	Light on when door is closed	2.50
Zacacay	13276	681	Steel case	.40



Steel Case.

Steel case for this Switch suitable for use with flexible conduit or iron pipe and provided with clamping device. It has three knock out holes—one at back and one end for Circular Loom, Flexduct or other flexible conduit, and one at other end for iron conduit.

HARTFORD AUTOMATIC TIME SWITCH.



For controlling Show Window Lights, Street Lights, Burglar Alarms, Motors and Batteries, Electric Sign Lights, Apartment House Hall Lights.

TYPE "B."

This type throws the switch on and off daily, at the hours for which it is set, without further attention than the weekly winding. It is provided with a cut-out by which the clock and switch can be disconnected, allowing the clock to operate without throwing the switch. It has also a hand trip by which the switch can be operated without disturbing the clock.

TYPE "C."

This type has a device by which the clock and switch are automatically disconnected one day in each week. While designed to omit the switch operation on Sunday, it can be set to disconnect on any day desired. It is also provided with a hand trip for operating the switch.

TYPE "D."

This type is similar to type "B" but is arranged to throw the switch on for two periods each day. It was designed for the special purposes of attracting the attention of theatre crowds to display windows and signs before and after the performances, and the saving of the current in the interim.

SPECIAL TYPES.

Special switches have been made to fill many unusual requirements, and there are few conditions of lighting that cannot be controlled by a Hartford Time Switch.

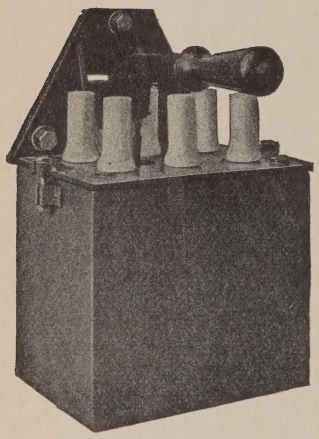
If your requirements are out of the ordinary practice, let us figure on a special automatic switch for you. It will cost little, if any, more than the regular types.

Code Word.	List No.	Types.	List Price, Each. B	C	D	G
Zadanin	27517	10 A., 250 V., S. P. or D. P.....	$24.00	$25.00	$26.00	$27.00
Zadanip	27518	10 A., 250 V., T. P.....	25.00	26.00	27.00	....
Zadanir	27519	20 A., 250 V., S. P. or D. P.....	25.00	26.00	27.00	....
Zadanis	27520	20 A., 250 V., T. P.....	26.00	27.00	28.00	....
Zadanit	27521	35 A., 250 V., S. P. or D. P.....	26.00	27.00	28.00	....
Zadaniv	27522	35 A., 250 V., T. P.....	27.00	28.00	29.00	....
Zadaniw	27523	50 A., 230 V., S. P. or D. P.....	29.00	30.00	31.00	....

Orders should distinctly specify which type is desired.

WESTINGHOUSE TYPE "D" OIL SWITCHES.

FOR POTENTIALS NOT EXCEEDING 3,300 VOLTS.



Tank in Place.

WALL MOUNTING.

DOUBLE THROW, SINGLE THROW.

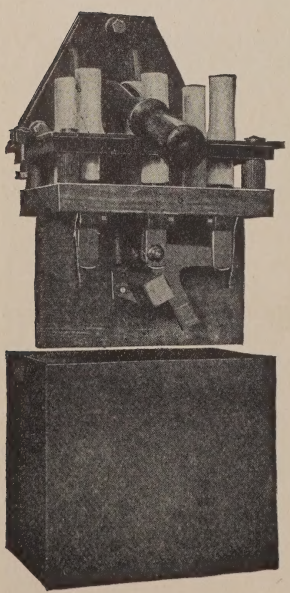
Code Word.	List No.	Mfr. No.	Capacity. Amperes.	List Price, Each.
Zacodaz	24643	27765	100	$24.00
Zacobe	24644	27766	200	29.00
Zacobeb	24645	27767	300	39.00
Zacobec	24646	27768	600	56.00
Zacobed	24647	27769	1,000	88.00

THREE POLE, SINGLE THROW.

Zacobef	24648	27770	100	29.00
Zacobeg	24649	27771	200	35.00
Zacobeh	24650	27772	300	46.00
Zacobek	24651	27773	600	68.00
Zacobel	24652	27774	1,000	107.00

FOUR POLE, SINGLE THROW.

Zacobem	24653	27775	100	35.00
Zacoben	24654	27776	200	43.00
Zacobep	24655	27777	300	56.00
Zacober	24656	27778	600	84.00
Zacobes	24657	27779	1,000	130.00



Tank Removed.

DOUBLE POLE, DOUBLE THROW.

Zacobet	24658	27780	100	36.00
Zacobev	24659	27781	200	43.00
Zacobew	24660	27782	300	57.00
Zacobex	24661	27783	600	83.00
Zacobey	24662	27784	1,000	131.00

THREE POLE, DOUBLE THROW.

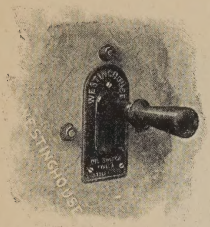
Zacobez	24663	27785	100	43.00
Zacobi	24664	27786	200	52.00
Zacobib	24665	27787	300	69.00
Zacobic	24666	27788	600	101.00
Zacobid	24667	27789	1,000	164.00

FOUR POLE, DOUBLE THROW.

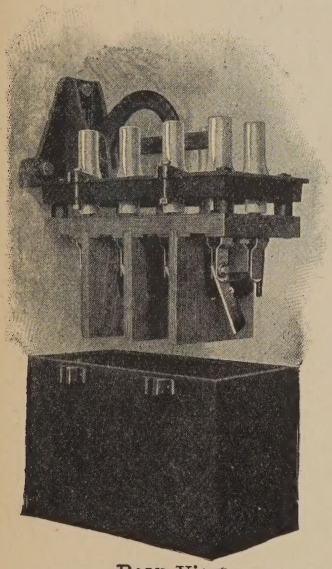
Zacobif	24668	27790	100	53.00
Zacobig	24669	27791	200	66.00
Zacobih	24670	27792	300	86.00
Zacobik	24671	27793	600	126.00
Zacobil	24672	27794	1,000	199.00

Ultimate breaking capacity: Single-phase, 600 kilowatts; two-phase, 1,200 kilowatts; three-phase, 1,000 kilowatts.

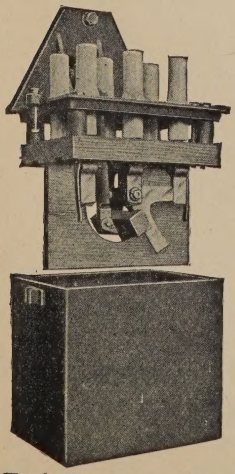
WESTINGHOUSE TYPE "D" OIL SWITCHES.



Front View.



Rear View.



Tank Removed—Closed.

SWITCHBOARD MOUNTING.

FOR POTENTIALS NOT EXCEEDING 3300 VOLTS.

DOUBLE POLE, SINGLE THROW.

Code Word.	List No.	Mfr. No.	Capacity.	List Price. Each.
Zacizuk	24611	27735	100 Amperes	$27.00
Zacizul	24612	27736	200 "	32.00
Zacizum	26413	27737	300 "	43.00
Zacizun	24614	27738	600 "	62.00
Zacizup	24615	27739	1000 "	98.00

THREE POLE, SINGLE THROW.

Zacizur	24616	27740	100 Amperes	32.00
Zacizus	24617	27741	200 "	39.00
Zacizut	24618	27742	300 "	51.00
Zacizuv	24619	27743	600 "	75.00
Zacizuw	24620	27744	1000 "	119.00

FOUR POLE, SINGLE THROW.

Zacizux	24621	27745	100 Amperes	39.00
Zacizuy	24622	27746	200 "	47.00
Zacizuz	24623	27747	300 "	62.00
Zacoba	24624	27748	600 "	93.00
Zacobab	24625	27749	1000 "	144.00

DOUBLE POLE, DOUBLE THROW.

Zacobac	24626	27750	100 Amperes	40.00
Zacobad	24627	27751	200 "	48.00
Zacobaf	24628	27752	300 "	63.00
Zacobag	24629	27753	600 "	93.00
Zacobah	24630	27754	1000 "	145.00

THREE POLE, DOUBLE THROW.

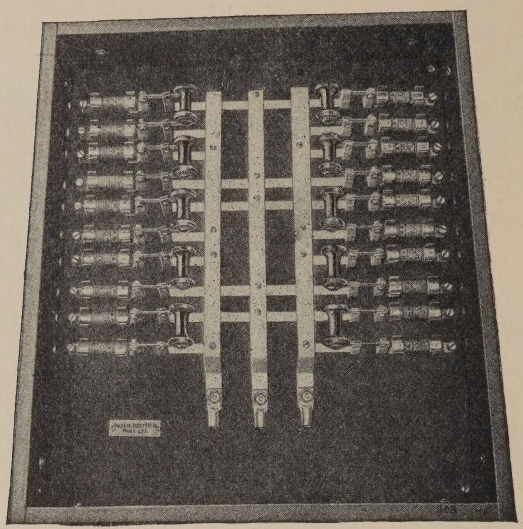
Zacobak	24631	27755	100 Amperes	43.00
Zacobal	24632	27756	200 "	58.00
Zacobam	24633	27757	300 "	76.00
Zacoban	24634	27758	600 "	113.00
Zacobap	24635	27759	1000 "	183.00

FOUR POLE, DOUBLE THROW.

Zacobar	24636	27760	100 Amperes	58.00
Zacobas	24637	27761	200 "	73.00
Zacobat	24638	27762	300 "	95.00
Zacobav	24639	27763	600 "	140.00
Zacobaw	24640	27764	1000 "	221.00

Ultimate Breaking Capacity — Single-Phase, 600 Kilowatts; Two-Phase, 1200 "; Three-Phase, 1000 "

WALKER TABLET BOARDS.



15 B TYPE.

SPECIFICATIONS.

SLATE.—Only selected purple Vermont is used, which is guaranteed free from mineral vein, and finished with three coats of enamel, baked on.

COPPER.—All current carrying parts are of drawn copper of the highest conductivity.

BUSSES.—Tables showing size of busses are given with each different style of tablet.

SWITCHES.—15 B, "Punched Clip" type, capacity 15 amperes, strong and rigid, with blades carefully ground in and moulded into non-breakable spool handles.

TYPE "E."—"Punched Clip" type, capacity 25 amperes, 25 amperes spacing; extra heavy; otherwise like 15 B.

TYPES "B," "C" AND "D."—"Sweated Clip" type, capacity 35 amperes, 10 and 25 amperes, 110 and 220 volts spacing; black polished rubber handles and yokes. Blades, hinge posts and clip blocks, extra heavy, square, true edges; draw-file finished, and designed to meet the most exacting specifications.

WALKER TABLET BOARDS.

15 B PANELS, TWO TO TWO WIRE, 110 VOLTS.

(Not made in 220 Volts.)

Code Word.	List No.	Mfr. No.	No. of Circuits.	Slate Panel, 2 Wire.	Marble Panel, 2 Wire.	Slate Side L. & Corner Braces.	Marble Side L. & Corner Braces.	Enam. Slate Door Lining.	Marble Door Lining.
Zademun	3570	15 B 22	2	$6.25	$7.75	$3.10	$7.00	$1.40	$3.00
Zademup	3571	15 B 42	4	9.50	12.00	3.50	7.20	1.60	3.00
Zademur	3572	15 B 62	6	12.75	16.00	4.00	7.60	2.00	4.00
Zademus	3573	15 B 82	8	16.00	20.00	4.30	8.40	2.40	4.90
Zademut	3574	15 B 102	10	19.50	24.00	4.50	9.00	2.60	5.60
Zademuv	3575	15 B 122	12	23.00	28.00	5.00	9.60	3.00	6.05
Zademuw	3576	15 B 142	14	26.50	32.00	5.20	10.40	3.25	6.75
Zademux	3577	15 B 162	16	30.00	36.00	5.50	11.00	3.40	7.50
Zademuy	3578	15 B 182	18	33.50	40.00	6.00	12.00	3.60	7.90
Zademuz	3579	15 B 202	20	37.00	44.00	6.30	12.50	4.00	8.80
Zadena	3580	15 B 222	22	40.50	48.00	6.50	13.00	4.40	9.60
Zadenab	3581	15 B 242	24	44.00	52.00	7.00	14.00	4.80	10.60
Zadenac	3582	15 B 262	26	47.50	56.00	7.20	14.20	4.80	10.60
Zadenad	3583	15 B 282	28	51.00	60.00	7.50	15.00	5.00	11.20
Zadenaf	3584	15 B 302	30	54.50	64.00	8.10	16.00	5.25	11.75

WALKER TABLET BOARDS.

15 B PANELS, THREE TO TWO WIRE, 110 VOLTS.

Code Word.	List No.	Mfr. No.....	No. of Circuits.....	Slate Panel, 3 Wire.....	Marble Panel, 3 Wire.....	Slate Side L. & Corner Braces...	Marble Side L. & Corner Braces...	Enam. Slate Door Lining.....	Marble Door Lining.....
Zadenag	3585	15 B 23	2	$6.75	$8.50	$3.20	$7.30	$1.40	$3.00
Zadenah	3586	15 B 43	4	10.50	13.00	3.60	7.30	1.60	3.50
Zadenak	3583	15 B 63	6	14.00	17.75	4.00	8.00	2.20	4.50
Zadenal	3588	15 B 83	8	17.50	22.00	4.30	8.80	2.60	5.40
Zadenam	3589	15 B 103	10	21.50	26.50	4.50	9.60	2.80	6.30
Zadenan	3590	15 B 123	12	25.25	31.00	5.00	10.00	3.20	7.00
Zadenap	3591	15 B 143	14	29.00	35.00	5.20	10.80	3.40	7.70
Zadenar	3592	15 B 163	16	33.00	39.50	5.50	11.50	3.80	8.40
Zadenas	3593	15 B 183	18	37.00	44.00	6.00	12.00	4.20	9.10
Zadenat	3594	15 B 203	20	40.50	48.50	6.30	12.50	4.60	10.10
Zadenav	3595	15 B 223	22	44.50	53.00	6.50	13.00	4.80	10.70
Zadenaw	3596	15 B 243	24	48.50	57.00	7.00	14.00	5.20	11.70
Zadenax	3597	15 B 263	26	52.00	61.50	7.30	14.20	5.20	11.70
Zadenay	3598	15 B 283	28	56.00	66.00	7.50	15.00	5.60	12.60
Zadenaz	3599	15 B 303	30	60.00	70.50	8.10	16.00	6.25	13.30

WALKER TABLET BOARDS.

DIMENSIONS OF STYLE 15 B TABLETS.

Branches arranged for Switches and Fuses.

All Linings 3 in. deep; Slate ½ in. thick; Marble ¾ in. thick, and rest on top of a 1 in. panel.

Form.	Fuse.	Slate Base.	Marble Base.
2-2 Wire 110 Volt	Open or Midget	15	15
2-2 Wire 110 Volt	N. E. Code	15	16
2-2 Wire 110 Volt	Type A	17	18
3-2 Wire 110 Volt	Open or Midget	17	17
3-2 Wire 110 Volt	N. E. Code	17	18
3-2 Wire 110 Volt	Type A	19	20

LENGTH OF TABLETS.

No. of Circuits	2	4	6	8	10	12	14	
Length	8	11	14	17	19	21	23	
Cable Hole, Main Lug		¼			5/16		⅜	
Size Main Buss		½ x ⅛			⅝ x ⅛		¾ x ⅛	
No. of Circuits	16	18	20	22	24	26	28	30
Length	25	27	30	32	35	37	39	42
Cable Hole, Main Lug		⅜				½		
Size Main Buss		¾ x ⅛				1 x ⅛		

WALKER TABLET BOARDS.

TYPE "E." (25 AMPERE.)

110 VOLTS.

TWO TO TWO WIRE.

Code Word.	List No.	Mfr. No.	No. of Circuits.	Slate Panel, 2 Wire.	Marble Panel, 2 Wire.	Slate S. L. and Corner B.	Marble S. L. and Corner B.	Enam. S. L. Door Linings.	Marble Door Linings.
Zadenin	3630	25B 22	2	$7.20	$9.00	$3.20	$7.20	$1.40	$3.00
Zadenip	3631	" 42	4	11.60	15.00	3.60	7.60	1.80	4.20
Zadenir	3632	" 62	6	16.00	20.00	4.00	8.40	2.20	5.40
Zadenis	3633	" 82	8	20.50	25.00	4.30	9.00	2.50	5.90
Zadenit	3634	" 102	10	25.00	30.00	4.80	9.60	2.80	6.50
Zadeniv	3635	" 122	12	30.00	36.00	5.20	10.80	3.40	7.50
Zadeniw	3636	" 142	14	34.00	41.00	5.50	12.00	3.60	8.60
Zadenix	3637	" 162	16	38.25	46.00	5.80	12.80	4.00	9.60
Zadeniy	3638	" 182	18	42.50	51.00	6.20	13.60	4.60	11.00
Zadeniz	3639	" 202	20	46.75	56.00	6.60	14.40	5.00	12.00
Zadeno	3640	" 222	22	51.00	61.00	7.00	15.20	5.30	12.50
Zadenob	3641	" 242	24	55.25	66.00	7.40	16.00	6.00	13.50
Zadenoc	3642	" 262	26	59.50	71.00	7.80	17.00	6.80	14.60
Zadenod	3643	" 282	28	63.75	76.00	8.40	18.00	7.60	15.60
Zadenof	3644	" 302	30	68.00	81.00	9.00	19.00	8.00	17.20

THREE TO TWO WIRE.

Zadenog	3645	25B 23	2	$7.60	$9.70	$3.20	$7.60	$1.40	$3.00
Zadenoh	3646	" 43	4	12.50	16.10	3.60	8.10	2.00	4.70
Zadenok	3647	" 63	6	16.80	21.40	4.00	9.20	2.40	5.80
Zadenol	3648	" 83	8	21.30	26.50	4.40	9.60	2.80	6.50
Zadenom	3649	" 103	10	25.70	31.50	4.80	10.40	3.10	7.30
Zadenon	3650	" 123	12	30.70	37.50	5.30	11.20	3.60	8.80
Zadenop	3651	" 143	14	35.00	42.40	5.60	12.00	4.00	9.60
Zadenor	3652	" 163	16	40.00	48.00	5.90	12.80	4.50	10.80
Zadenos	3653	" 183	18	45.00	54.00	6.30	13.60	5.20	12.40
Zadenot	3654	" 203	20	50.00	60.00	6.70	14.40	5.50	13.20
Zadenov	3655	" 223	22	55.00	66.00	7.10	15.20	5.90	14.00
Zadenow	3656	" 243	24	60.00	72.00	7.50	16.00	7.30	15.00
Zadenox	3657	" 263	26	65.00	78.00	8.00	17.00	7.80	16.30
Zadenoy	3658	" 283	28	70.00	84.00	8.60	18.00	8.50	17.80
Zadenoz	3659	" 303	30	75.00	90.00	9.20	19.00	9.10	19.00

WALKER TABLET BOARDS.

TYPE "E."

220 VOLTS.

TWO TO TWO WIRE.

Code Word.	List No.	No. of Circuits.	Slate Panels.	Marble Panels.	Slate S. L. and Corner B.	Marble S. L. and Corner B.	Slate Door Linings.	Marble Door Linings.
Zadene	3600	2	$7.80	$9.90	$3.30	$7.50	$1.40	$3.50
Zadeneb	3601	4	12.75	16.50	3.70	8.25	1.80	4.50
Zadenec	3602	6	17.00	21.60	4.25	9.25	2.25	5.75
Zadened	3603	8	21.25	26.30	4.50	9.75	2.60	7.75
Zadenef	3604	10	25.50	32.00	4.90	10.90	3.00	8.75
Zadeneg	3605	12	30.50	37.75	5.40	11.75	3.50	10.00
Zadeneh	3606	14	34.50	43.00	5.90	12.60	4.00	10.50
Zadenek	3607	16	38.00	48.00	6.40	13.60	4.75	12.50
Zadenel	3608	18	43.00	53.50	6.90	14.40	5.00	14.50
Zadenem	3609	20	48.00	58.00	7.40	15.20	6.75	16.25
Zadenen	3610	22	53.00	63.50	7.90	16.00	7.25	17.75
Zadenep	3611	24	58.00	68.00	8.40	16.80	7.50	17.75
Zadener	3612	26	63.00	73.50	8.90	18.00	8.75	21.00
Zadenes	3613	28	68.00	78.50	9.40	18.60	9.50	21.00
Zadenet	3614	30	72.00	85.25	9.75	20.50	10.00	23.50

THREE TO TWO WIRE.

Zadenev	3615	2	9.00	11.50	3.60	8.20	1.40	4.00
Zadenew	3616	4	14.25	18.50	4.10	8.60	2.00	4.80
Zadenex	3617	6	19.25	24.50	4.50	9.50	2.50	6.25
Zadeney	3618	8	23.50	29.50	4.75	10.00	3.25	8.25
Zadenez	3619	10	28.25	35.25	5.10	11.25	3.75	10.50
Zadeni	3620	12	33.50	42.00	5.60	12.25	4.00	12.00
Zedenib	3621	14	38.75	46.75	6.10	13.00	6.00	14.00
Zadenic	3622	16	44.00	54.00	6.50	14.00	6.50	16.00
Zadenid	3623	18	48.00	61.00	7.20	15.00	7.25	18.00
Zadenif	3624	20	53.00	68.00	7.70	16.00	8.25	19.50
Zadenig	3625	22	58.00	75.00	8.20	17.00	8.25	19.50
Zadenih	3626	24	64.00	82.00	8.70	18.00	11.25	23.25
Zadenik	3627	26	70.00	89.00	9.00	19.00	11.25	23.25
Zadenil	3628	28	76.00	94.00	9.50	20.00	12.75	25.50
Zadenim	3629	30	82.50	97.50	10.00	21.00	12.75	25.50

WALKER TABLET BOARDS.

DIMENSIONS OF TYPE "E" TABLETS.

Type E, Branches arranged for Switches and Fuses.

All Linings 3 in. deep; Slate ½ in. thick; Marble ¾ in. thick, and rest on top of a 1 in. panel.

WIDTH OF TABLETS.

Form.	Fuse.	Slate or Marble Base.
2-2 Wire 110 Volt	Midget	17
2-2 Wire 110 Volt	N. E. C. or Open	17
2-2 Wire 110 Volt	Type A	19
3-2 Wire 110 Volt	Midget	19
3-2 Wire 110 Volt	N. E. C. or Open	19
3-2 Wire 110 Volt	Type A	21

LENGTH OF TABLETS.

No. of Circuits	2	4	6	8	10	12	14	
Length	8	14	17	19	21	25	27	
Cable Hole, Main Lug		¼			5/16		⅜	
Size Main Buss		½ x ⅛			¾ x ⅛		1 x ⅛	
No. of Circuits	16	18	20	22	24	26	28	30
Length	30	35	37	39	42	45	48	54
Cable Hole, Main Lug		⅜				½		
Size Main Buss		1 x ⅛				1 x 3/16		

WALKER TABLET BOARDS.

ACCESSORIES.

ADDITIONAL PRICES FOR MAIN SWITCHES.

ON SLATE PANELS.

			2-POLE.			3-POLE.		
Code Word.	List No.	Amps.	Open Link.	Type A.	N. E. C.	Open Link.	Type A.	N. E. C.
Zadenu	3660	25	$9.00	$9.00	$9.00	$13.00	$13.00	$13.00
Zadenub	3661	50	12.00	12.00	12.00	16.00	16.00	16.00
Zadenuc	3662	100	17.00	17.00	25.00	26.00	26.00	39.00
Zadenud	3663	200	24.00	29.00	39.00	35.00	42.00	57.00
Zadenuf	3664	300	30.00	36.00	.....	40.00	48.00	.....
Zadenug	3665	400	37.00	45.00	61.00	50.00	60.00	85.00
Zadenuh	3666	500	50.00	60.00	.....	65.00	78.00	.....
Zadenuk	3667	600	60.00	72.00	100.00	83.00	100.00	145.00

ON MARBLE PANELS.

Zadenul	3668	25	11.30	11.30	11.30	17.00	17.00	17.00
Zadenum	3669	50	15.00	15.00	15.00	20.00	20.00	20.00
Zadenun	3670	100	21.30	21.30	31.30	32.50	32.50	49.00
Zadenup	3671	200	30.00	36.30	49.00	44.00	52.50	67.00
Zadenur	3672	300	37.50	45.00	.....	50.00	60.00	.....
Zadenus	3673	400	46.00	56.00	76.00	62.50	75.00	106.00
Zadenut	3674	500	63.00	75.00	.....	81.00	97.00	.....
Zadenuv	3675	600	75.00	90.00	125.00	104.00	125.00	181.00

ADDITIONAL PRICES FOR MAIN FUSES.

ON SLATE PANELS.

						3-WIRE.		
		Amps.	Open Link.	Type A.	N. E. C.	Open Link.	Type A.	N. E. C.
Zadenuw	3676	1- 30	3.00	3.00	3.50	4.00	4.00	4.50
Zadenux	3677	31- 60	3.00	3.00	4.00	4.00	4.00	5.00
Zadenuy	3678	61-100	4.25	4.25	10.00	6.50	6.50	15.00
Zadenuz	3679	101-200	6.00	7.25	15.00	8.75	10.50	22.00
Zadepa	3680	201-300	7.50	9.00	.....	10.00	12.00	.....
Zadepab	3681	301-400	9.25	11.25	24.00	12.50	15.00	34.00
Zadepac	3682	401-500	12.50	15.00	.....	16.25	19.50	.....
Zadepad	3683	501-600	15.00	18.00	40.00	20.75	25.00	58.00

ON MARBLE PANELS.

Zadepaf	3684	1- 30	3.75	3.75	4.50	5.00	5.00	5.75
Zadepag	3685	31- 60	3.75	3.75	5.00	5.00	5.00	6.25
Zadepah	3686	61-100	5.50	5.50	12.50	8.00	8.00	19.00
Zadepak	3687	101-200	9.00	9.00	19.00	11.00	13.00	27.50
Zadepal	3688	201-300	11.25	11.25	.....	12.50	15.00	.....
Zadepam	3689	301-400	14.00	14.00	30.00	15.50	19.00	43.00
Zadepan	3690	401-500	19.00	19.00	.....	20.50	25.00	.....
Zadepap	3691	501-600	23.00	23.00	50.00	26.00	32.00	73.00

For Plug Fuse Panels add 20 per cent.

For Double Neutral Bus add 5 per cent.

For Standard Size Lugs, both ends, 2 Wire, add $3.00

For Standard Size Lugs, both ends, 3 Wire, add $4.50.

FUSE WIRE AND RIBBON.

FUSE WIRE.

Code Word.	List No.	Diam. Mils.	Carry Cap. Amp.	Std. Length	Ft. per lb.	List price per lb.
Zabacan	47064	10	¼	1½ inches	2700	Special
Zabacap	47065	17	½	1½ inches	950	$2.75
Zabacar	47066	20	1	1½ inches	670	1.10
Zabacas	47067	23	1½	1½ inches	510	1.05
Zabacat	47068	25	2	1½ inches	430	1.05
Zabacav	47069	27	3	1½ inches	370	1.00
Zabacaw	47070	30	4	1½ inches	300	1.00
Zabacax	47071	35	5	2 inches	220	1.00
Zabacaz	47072	38	6	2 inches	185	.85
Zabace	47073	44	7	2 inches	140	.85
Zabaceb	47074	47	8	2 inches	120	.80
Zabaced	47075	54	9	2 inches	93	.80
Zabacef	47076	58	10	2 inches	80	.80
Zabaceg	47077	62	12	3 inches	70	.80
Zabaceh	47078	68	14	3 inches	60	.80
Zabacek	47079	70	15	3 inches	52	.75
Zabacel	47080	73	16	3 inches	49	.75
Zabacem	47081	78	18	3 inches	43	.75
Zabacen	47082	86	20	4 inches	36	.75
Zabacep	47083	90	25	4 inches	32	.75
Zabacer	47084	100	30	4 inches	26	.75
Zabaces	47085	110	35	4 inches	22	.75
Zabacet	47086	122	40	4 inches	18	.75
Zabacev	47087	126	45	4 inches	17	.75
Zabacew	47088	147	50	4 inches	12.5	.75
Zabacex	47089	160	60	5 inches	10.3	.70
Zabacez	47090	172	70	5 inches	9.0	.70
Zabaci	47091	178	75	5 inches	8.3	.70
Zabacib	47092	190	80	5 inches	7.5	.70
Zabacid	47093	198	90	5 inches	6.7	.70
Zabacif	47094	220	100	5 inches	5.5	.70

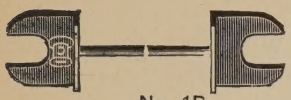
½ to 35 Amp. inclusive, on 1 lb. spools. 40 to 100 Amp. inclusive, on 2 lb. spools.
Standard package contains 10 lbs. or over, assorted sizes.

FUSE RIBBON.

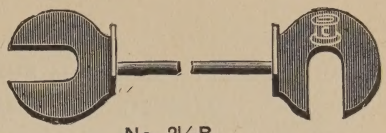
		Carrying Capacity Amps.	Length in inches.	Size in inches.		
Zabacig	47095	50	4	.36 x .047	12.5	.65
Zabacih	47096	60	4	.44 x .052	11.3	.65
Zabacik	47097	75	4	.50 x .043	9.7	.65
Zabacil	47098	90	4	.66 x .045	7.0	.65
Zabacim	47099	100	4	.38 x .078	7.0	.65
Zabacin	47100	115	4	.44 x .092	5.2	.60
Zabacip	47101	125	4	.50 x .095	4.5	.60
Zabacir	47102	150	4	.53 x .092	4.3	.60
Zabacis	47103	175	4	.66 x .095	3.3	.60
Zabacit	47104	190	4	.75 x .094	3 0	.60
Zabaciv	47105	200	4	.87 x .093	2.6	.60
Zabaciw	47106	225	4	1.0 x .095	2.2	.60
Zabacix	47107	250	4	1.0 x .113	1.8	.60
Zabaciz	47108	300	4½	1.0 x .15	1.4	.60
Zabaco	47109	400	4½	1.0 x .19	1.1	.60
Zabacob	47110	500	4½	1.25 x .20	.85	.60
Zabacod	47111	600	4½	1.5 x .18	.75	.60

Furnished in coils of any length.
Standard package contains 10 lbs. or over assorted sizes.

TESTED FUSE LINKS.



No. 1B.



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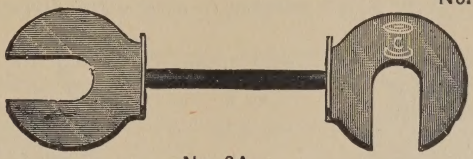


No. 3A.

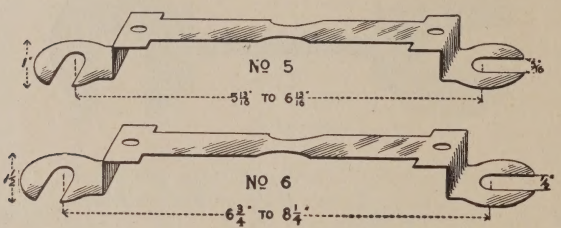
Code Word.	List No.		List Price Per 1000.
Zababok	47025	No. 1B Terminal, 1, 2, 3, 5 Ampere, Slots ⅛ in., 1½ in. centers.	$21.50
		For S. M. or Edison Main or Branch Blocks.	
Zababol	47026	No. 2½B Terminal, 5, 8, 10, 12, 15, 20, 25, 30 Ampere, Slots 3-16 in., 1½ in. centers	33.50
		For Edison Main or Branch Blocks.	
Zabetax	50424	No. 3A Terminal, 35, 40, 45, 50, 60, 75, 90, 100 Ampere, Slots 7-32 in., 1½ in. centers	35.00
		For S. M. Blocks and Fused Switches.	
Zababom	47027	No. 3A Terminal, 25, 30, 35, 40, 50 Ampere, Slots 7-32 in., 2½ in. centers	50.00
		For S. M. Blocks and Fused Switches.	
Zababon	47028	No. 4A Terminal, 60, 75, 90 Ampere, Slots ¼ in., 2½ in. centers	55.00
		For Fuse Blocks and Switch Boards.	
Zababop	47029	No. 5A Terminal, Slots ⅜ in., 2½ in. centers, 100, 125, 150, 175, 200 Amperes	112.50
Zababor	47030	No. 6A Terminal, Slots ½ in., 2½ in. centers, 200, 225, 250, 275 Amperes	135.00
Zababos	47031	300, 350, 400 Amperes	165.00
Zababot	47032	500, 600 Amperes	200.00
Zababov	47033	700, 800 Amperes	250.00
		For Generators and Motors. No. 8A. Terminal Slots ¾ inch—4 inch Centers.	Carrying Capacity, Amperes. / List Price Per 100.
Zababow	47034		100 / 25.00
Zababox	47035		400 / 25.00
Zababoz	47036		500 / 30.00
Zababu	47037		600 / 30.00
Zababub	47038		700 / 35.00
Zababud	47039		800 / 35.00
Zababuf	47040		900 / 40.00
Zababug	47041		1000 / 40.00
		For Edison Underground Service. No. 10C. Ter. Slots enlarged to 11-16 in.—3 in. Centers.	
Zababuh	47042		400 / 30.00
Zababuk	47043		500 / 35.00
Zababul	47044		800 / 40.00
Zababum	47045		1000 / 50.00
Zababun	47046		1200 / 65.00
		For Edison Underground Service. No. 5½A. Terminal Slots 7-16—2⅜ inch Centers.	
Zababup	47047		100 / 15.00
Zababur	47048		150 / 15.00
Zababus	47049		200 / 18.00
Zababut	47050		250 / 18.00
Zababuv	47051		300 / 20.00
Zababuw	47052		500 / 20.00
Zababux	47053		600 / 25.00
Zababuz	47054		800 / 25.00
Zabaca	47055		1000 / 25.00
		T.-H. Railway Links. Round Type. Slots ¼ inch—2¼ inch Centers.	
Zabacab	47056		35 / 40.00
Zabacad	47057		50 / 45.00
Zabacaf	47058		75 / 50.00
Zabacag	47059		80 / 50.00
Zabacah	47060		100 / 50.00
		Flat Type.	
Zabacak	47061		100 / 50.00
Zabacal	47062		150 / 60.00
Zabacam	47063		200 / 75.00

FUSES.

SAFETY ALUMINUM FUSES FOR LINK TYPE CUT-OUTS, ETC.

For 250 Volts or less.

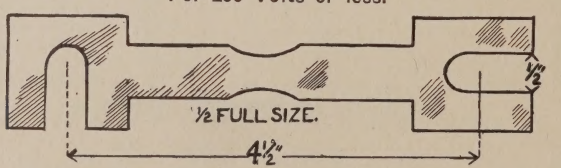
TYPE A, OR SCREW CLAMP CONTACT.



Code Word.	List No.	Mfr. No.	Type No.	Amperes.	List Price, Each.
Zaboper	10345	2641	5	50	$0.20
Zabopes	10346	2642	5	60	.20
Zabopet	10347	2643	5	70	.20
Zabopev	10348	2644	5	80	.20
Zabopew	10349	2645	5	90	.20
Zabopex	10350	2646	5	100	.20
Zabopey	10351	2647	5	125	.20
Zabopez	10352	2648	5	150	.20
Zabopi	10353	2649	5	175	.20
Zabopib	10354	2650	5	200	.20
Zabopic	10355	2651	6	125	.25
Zabopid	10356	2652	6	150	.25
Zabopif	10357	2653	6	200	.25
Zabopig	10358	2654	6	250	.25
Zabopih	10359	2655	6	300	.30
Zabopik	10360	2656	6	400	.30
Zabopil	10361	2657	6	500	.30
Zabopim	10362	2658	6	600	.30

SAFETY ALUMINUM FUSES FOR SWITCHBOARD USE.

For 250 Volts or less.



Code words are intended for 4½ inch C. to C. Where other lengths are wanted, use same code words, but specify special lengths.

			Amperes.	Distance on Centers.	List Price, Open.
Zabopin	10363	2740	100	These Fuses are made from 4½ to 6 in. C. to C.	.70
Zabopip	10364	2741	150		.70
Zabopir	10365	2742	200		.70
Zabopis	10366	2743	250		.70
Zabopit	10367	2744	300		.70
Zabopiv	10368	2745	400		.75
Zabopiw	10369	2746	500		.80
					List Price, Covered.
Zabopix	10370	2747	100		1.00
Zabopiy	10371	2748	150		1.00
Zabopiz	10372	2749	200		1.00
Zabopo	10373	2750	250		1.00
Zobopob	10374	2751	300		1.00
Zabopoc	10375	2752	400		1.00
Zabopod	10376	2753	500		1.00

The covered fuse is recommended where the open fuse might disfigure the board, etc. The above fuse has been designed to meet the demands for Switchboard Fuses where the Standard Enclosed Fuses will not fit.

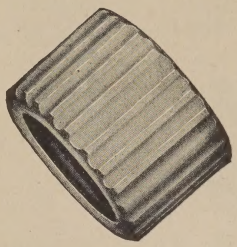
D. AND W. FUSES.

RENEWABLE PLUG CASES AND CARTRIDGES.

0-30 AMPERES. 250 VOLTS. TYPE "B" FOR EDISON CUT-OUT.

No. 16596.

Cases.



No. 16609.

Code Word.	List No.	Mfr. No.	Ampere Capacity.	Package, Quantity.	Package, Net Weight.	List Price, With Fuse.	List Price, Without Fuse.
Zacisub	16596	100	0-30 amperes	100	12 lbs.	$0.43	$0.25
			Cartridges.				
Zacisuc	16598	103	3 amperes	100	3 lbs.	.18	.....
Zacisud	16599	104	4 amperes	100	3 lbs.	.18	....
Zacisuf	16600	105	5 amperes	100	3 lbs.	.18	....
Zacisug	16601	106	6 amperes	100	3 lbs.	.18	....
Zacisuh	16602	108	8 amperes	100	3 lbs.	.18	....
Zacisuk	16603	110	10 amperes	100	3 lbs.	.18	....
Zacisul	16604	112	12 amperes	100	3 lbs.	.18	....
Zacisum	16605	115	15 amperes	100	3 lbs.	.18	....
Zacisun	16606	118	18 amperes	100	3 lbs.	.18	....
Zacisup	16607	120	20 amperes	100	3 lbs.	.18	....
Zacisur	16608	125	25 amperes	100	3 lbs.	.18	....
Zacisus	16609	130	30 amperes	100	3 lbs.	.18	....

TYPE "B" FOR 60 AMPERE PLUG CUT-OUTS. 31-75 AMPERES. 250 VOLTS.

			Cases.				
Zacisut	16611	131	31-75 amperes	50	12 lbs.	....	.50
			Cartridges.				
Zacisuv	16612	135	35 amperes	100	12 lbs.	.33	....
Zacisuw	16613	140	40 amperes	100	12 lbs.	.33	....
Zacisux	16614	145	45 amperes	100	12 lbs.	.33	....
Zacisuy	16615	150	50 amperes	100	12 lbs.	.33	....
Zacisuz	16616	155	55 amperes	100	12 lbs.	.33	....
Zacita	16617	160	60 amperes	100	12 lbs.	.33	....
Zacitab	16618	165	65 amperes	50	6 lbs.	.86	....
Zacitac	16619	170	70 amperes	50	6 lbs.	.86	....
Zacitad	16620	175	75 amperes	50	6 lbs.	.86	....

BRYANT PLUG FUSES.

No. 66327.
(½ Full Size.)

No. 329.
(½ Full Size.)

No. 1945.
(⅜ Full Size.)

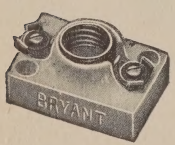
NATIONAL ELECTRICAL CODE STANDARD. 125 VOLTS.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadeboy	66327	3 Ampere.....	500	$0.07
Zadeboz	66329	6 Ampere.....	500	.07
Zadebu	66331	10 Ampere.....	500	.07
Zadebub	66333	12 Ampere.....	500	.07
Zadebuc	66335	15 Ampere.....	500	.07
Zadebud	66337	20 Ampere.....	500	.07
Zadebuf	66339	25 Ampere.....	500	.07
Zadebug	66341	30 Ampere.....	500	.07

NON-ARCING, INDICATING.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

Zadebul	329	3 Ampere.....	100	.43
Zadebuk	330	4 Ampere.....	100	.43
Zadebul	331	5 Ampere.....	100	.43
Zadebum	332	6 Ampere.....	100	.43
Zadebun	333	8 Ampere.....	100	.43
Zadebup	334	10 Ampere.....	100	.43
Zadebur	335	12 Ampere.....	100	.43
Zadebus	336	15 Ampere.....	100	.43
Zadebut	337	18 Ampere.....	100	.43
Zadebuv	338	20 Ampere.....	100	.43
Zadebuw	339	25 Ampere.....	100	.43
Zadebux	340	30 Ampere.....	100	.43



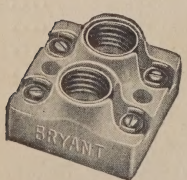
No. 62569.
(¼ Full Size.)

BRYANT PLUG FUSE CASINGS.

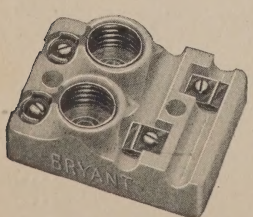
NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

Zadeby	1945	Casing for 0-30 Ampere Fuses.	100	.18
Zadebuz	1946	Casing for 31-60 Ampere Fuses.	100	.36

EDISON PLUG CUT-OUTS.



No. 62965.
(¼ Full Size.)



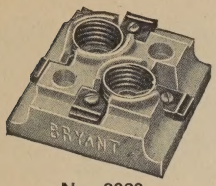
No. 61935.
(¼ Full Size.)

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

When fused with 250-volt non-arcing fuse plugs these Cut-Outs are approved for use on 250-volt circuits. When fused with Edison fuse plugs they are approved for use on 125-volt circuits.

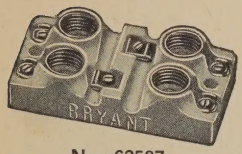
Zadeca	62569	3-30 Ampere, Single Pole Main	150	.18
Zadecab	62965	3-30 Ampere, Double Pole Main	150	.30
Zadecac	1119	31-60 Ampere, Double Pole Main	50	1.50
Zadecad	61935	3-30 Ampere, Double Pole, Single Branch	100	.32
Zadecaf	1120	31-60 Ampere, Double Pole, Single Branch	50	1.75

EDISON PLUG CUT-OUTS.—(Continued.)



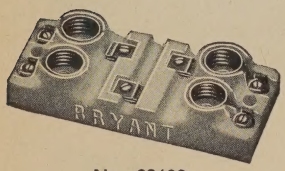
No. 8020.
(¼ Full Size.)

Code Word.	List No.			Std. Pkg.	List Price, Each.
Zadecag	8020	3-30	Ampere, Double Pole, Single or Double Cross Over Branch.	150	$0.36



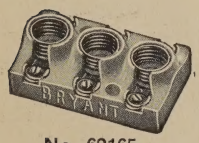
No. 62587.
(¼ Full Size.)

Zadecah	62587	3-30	Ampere, Double Pole, Double Branch.....	100	.62



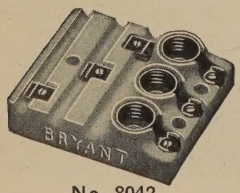
No. 62199.
(¼ Full Size.)

Zadecak	62199	3-30	Ampere, Triple to Double Pole, Double Branch	100	.64



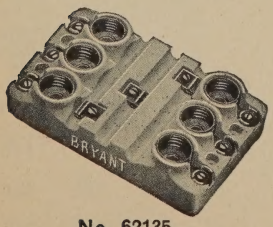
No. 62165.
(⅙ Full Size.)

Zadecal	62165	3-30	Ampere, Triple Pole. Main	100	.44
Zadecam	1121	31-60	Ampere, Triple Pole, Main	50	2.25



No. 8042.
(⅙ Full Size.)

Zadecan	8042	3-30	Ampere, Triple Pole, Single Branch.....	75	.54
Zadecap	1122	31-60	Ampere, Triple Pole, Single Branch.....	25	3.00



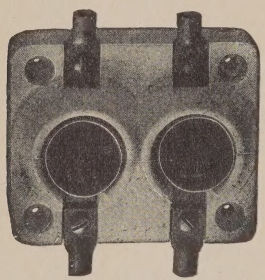
No. 62135.
(⅙ Full Size.)

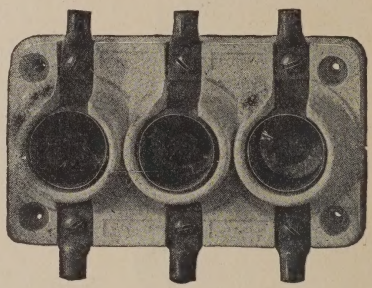
Zadecar	62135	3-30	Ampere, Triple Pole, Double Branch.....	50	.90

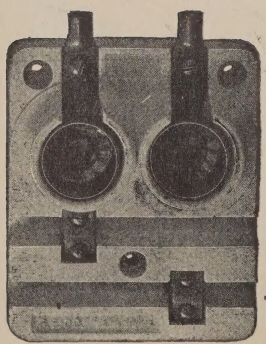
G. E. NATIONAL ELECTRICAL CODE STANDARD.

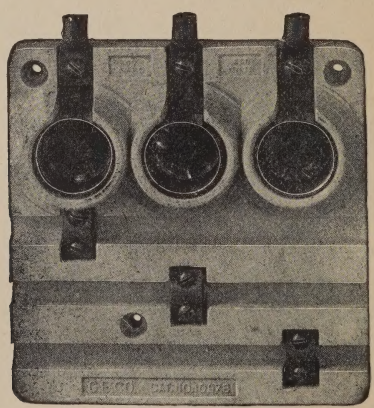
PLUG CUT-OUTS FOR 250 VOLTS.

These cut-outs are perfectly adapted to the protection of circuits having a maximum current of 60 amperes, and a maximum potential of 250 volts. Renewable fuse plugs for these cut-outs are listed elsewhere.









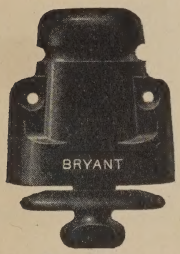
Code Word.	List No.	Mfr. No.		Package Quantity.	List Price, Each.
Zabixaz	21139	10976	Triple-pole, main line cut-out.....	50	$2.25
Zabixe	21140	10977	Double-pole, single branch cut-out.....	50	1.75
Zabixeb	21141	10978	Triple-pole, single branch cut-out.....	50	3.00
Zabixec	21142	10975	Double-pole, main line cut-out.....	50	1.50

BRYANT SPECIALTIES.

No. 934.
(1-10 Full Size.)

BRYANT-CLEVELAND ARC CUT-OUT.

Zadehev	934	....	4.00

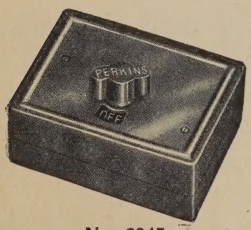


No. 1689.
(¼ Full Size.)

PRIMARY PORCELAIN TRANSFORMER CUT-OUT.

Zadehew	1689	Porcelain Transformer Cut-out, complete with plug....	50	1.50
Zadehex	1690	Porcelain Transformer Cut-out, without plug.....	50	1.00
Zadehey	1691	Porcelain Plug only.....	50	.50

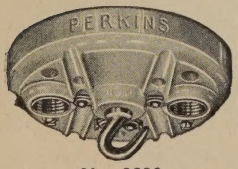
This Cut-out is single pole and will operate with entire satisfaction under a maximum load of 30 amperes at 2500 volts. The fuse wire is nine inches long. The Cut-out is finished in black enamel.



No. 2315.
(¼ Full Size.)

PERKINS 600 VOLT SWITCH.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadehes	2315	3 Ampere Single Pole 500-Volt Indicating Fusible Switch, brown porcelain....	25	$1.20
Zadehet	2316	3 Ampere 500-Volt enclosed fuse for above.....	100	.38



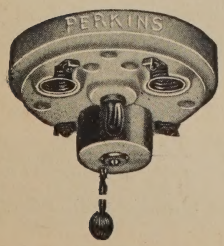
No. 3226.
(¼ Full Size.)

PERKINS ARC LAMP HANGER BOARDS.

NATIONAL ELECTRICAL CODE STANDARD. 250 VOLTS.

FOR MULTIPLE LAMPS.

Zadehez	3226	With connections for Plug Fuses	10	1.25
Zadehi	3269	With 10 Amp. D. P. Pull Switch and connections for Plug Fuses.....	10	2.50

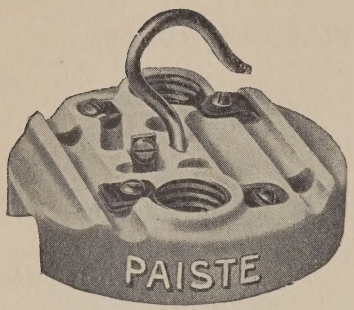


No. 3269.
(¼ Full Size.)

FOR SERIES LAMPS.

Zadehib	3221	Plain Hanger Board.....	10	1.00
Zadehic	3222	With Switch for series lamps ...		2.80

PAISTE FUSIBLE HANGER BOARDS.



No. 4956.
(1-3 Full Size.)

FOR MULTIPLE ARC LAMPS.

These new fusible arc lamp Hanger Boards combine many new features and advantages, and cover three distinct styles adapted for cleat or open wiring, concealed wiring and molding wiring. Provision is made on each style for taking off wires to a side switch operating each lamp, either by open wiring, by molding or for hanging a pendant switch, or eliminating this side switch entirely and operating the lamp or lamps from the main switch.

FOR CLEAT OR OPEN WIRING.

Code Word.	List No.	Mfr. No.	Std. Pkg.	List Price, Each.
Zabibes	4956	4070	10	$1.25

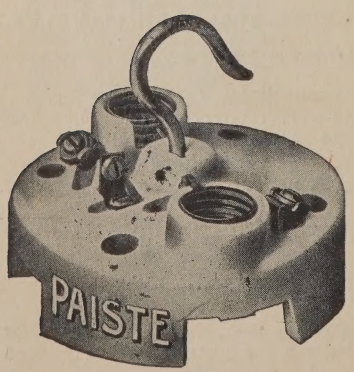
No. 4957.
(1-3 Full Size.)

FOR CONCEALED WIRING.

These hanger boards made in the three styles have attachment for Edison plug type of fuses.

A recess will be found on the side of each cut-out for receiving the end of a piece of molding when it is desired to carry off an operating switch on the side for each lamp.

Zabibet	4957	4071	10	1.25



No. 4958.
(1-3 Full Size.)

FOR MOLDING WIRING.

In this style the molding is to be run continuously and a contact piece set into the wires where it is desired to hang the lamp.

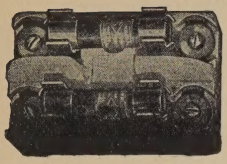
This contact plate is practically identical with the contact button of the Fielding rosette. The hanger board is then set over it and screwed to the ceiling.

The two lugs on the contact plate below come up through the hanger board and slip under set screws thereon, thus completing the circuit; a method of wiring fully appreciated by those familiar with Fielding rosettes and receptacles.

Zabitev	4958	4072	10	1.50

SHAWMUT PORCELAIN CUT-OUTS.

NATIONAL ELECTRICAL CODE STANDARD.

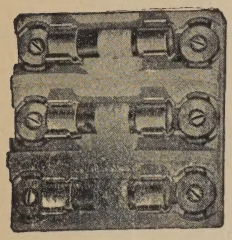


No. 14741.

For 250 Volts and Under.

DOUBLE POLE, MAIN LINE.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zacakix	14741	30 amperes.....	50	$0.60
Zacakiy	14742	60 amperes.....	50	1.60



No. 14743.

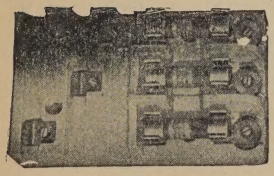
TRIPLE POLE, MAIN LINE.

Zacakod	14743	30 amperes.....	50	.90
Zacakof	14744	60 amperes.....	50	2.35

No. 14745.

DOUBLE POLE, SINGLE BRANCH.

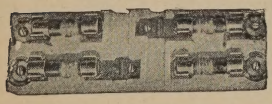
Zacakiz	14745	30 amperes.....	50	.80
Zacako	14746	60 amperes.....	50	2.10



No. 14747.

TRIPLE POLE, SINGLE BRANCH.

Zacakog	14747	30 amperes.....	50	1.35
Zacakoh	14748	60 amperes.....	50	3.00



No. 14749.

DOUBLE POLE, DOUBLE BRANCH.

Zacakob	14749	30 amperes.....	25	1.30
Zacakoc	14751	60 amperes.....	25	4.00

No. 14752.

THREE TO TWO WIRE, DOUBLE BRANCH.

Zakakok	14752	30 amperes.....	25	1.50
Zacakol	14753	60 amperes.....	25	5.00

All 60 ampere cut-outs are equipped with solder lugs.

SHAWMUT ENCLOSED FUSES.

NATIONAL ELECTRICAL CODE STANDARD.

250 Volts and Under.

No. 14862.

Length over all, 2 in.
Diam. of tube, ½ in.
Diam. of ferrule, .55 in.
Maximum capacity, 30 amp.

No. 14871.

Length over all, 3 in.
Diam. of tube, ¾ in.
Diam. of ferrule, .81 in.
Maximum capacity, 60 amp.

No. 14876.

Length over all, 6 in.
Diam. of fuse tube, 1 in.
Thickness of terminal, ⅛ in.
Length over ferrules, 3⅞ in.
Width of terminal, ¾ in.
Maximum capacity, 100 amp.

No. 14883.

Length over all, 7¼ in.
Diam. of fuse tube, 1½ in.
Thickness of terminal, 3–16 in.
Length over ferrules, 4⅜ in.
Width of terminal, 1⅛ in.
Maximum capacity, 200 amp.

No. 14889.

Length over all, 8¾ in.
Diam. of fuse tube, 2 in.
Thickness of terminal, ¼ in.
Length over ferrules, 4⅞ in.
Width of terminal, 1⅝ in.
Maximum capacity, 400 amp.

No. 14893.

Length over all, 10½ in.
Diam. of fuse tube, 2½ in.
Thickness of terminal, ¼ in.
Length over ferrules, 5⅞ in.
Width of terminal, 2 in.
Maximum capacity, 600 amp.

Code Word.	List No.	Amp.	Std. Pkg.	List Price, Each.	Refilling, Price. Each.
Zacalak	14858	3	100	$0.25	Not Refillable.
Zacalal	14859	5	100	.25	
Zacalam	14860	6	100	.25	
Zacalan	14861	8	100	.25	
Zacalap	14862	10	100	.25	
Zacalar	14863	12	100	.25	
Zacalas	14864	15	100	.25	
Zacalat	14865	20	100	.25	
Zacalav	14866	25	100	.25	
Zacalaw	14867	30	100	.25	

Sizes not listed in this class can be obtained at same list.

Zacalax	14868	35	100	.33	Not Refillable.
Zacalay	14869	40	100	.33	
Zacalaz	14870	45	100	.33	
Zacale	14871	50	100	.33	
Zacaleb	14872	55	100	.33	
Zacalec	14873	60	100	.33	

Sizes not listed in this class can be obtained at same list.

Zacaled	14874	65	50	.86	$0.57
Zacalef	14875	70	50	.86	.57
Zacaleg	14876	75	50	.86	.57
Zacaleh	14877	80	50	.86	.57
Zacalek	14878	90	50	.86	.57
Zacalel	14879	100	50	.86	.57

Sizes not listed in this class can be obtained at same list.

Zacalem	14880	110	25	2.00	.90
Zacalen	14881	120	25	2.00	.90
Zacalep	14882	125	25	2.00	.90
Zacaler	14883	150	25	2.00	.90
Zacales	14884	175	25	2.00	.90
Zacalet	14885	200	25	2.00	.90

Sizes not listed in this class can be obtained at same list.

Zacalev	14886	225	25	3.40	1.48
Zacalew	14887	250	25	3.40	1.48
Zacalex	14888	275	25	3.40	1.48
Zacaley	14889	300	25	3.40	1.48
Zacalez	14890	350	25	3.40	1.48
Zacali	14891	400	25	3.40	1.48

Sizes not listed in this class can be obtained at same list.

Zacalib	14892	450	10	5.20	2.00
Zacalic	14893	500	10	5.20	2.00
Zacalid	14894	550	10	5.20	2.00
Zacalif	14895	600	10	5.20	2.00

Sizes not listed in this class can be obtained at same list.

The above prices for refilling fuses are for quantities of not less than 100 of one capacity of "Shawmut" N. E. Code Std. Fuses.

SHAWMUT ENCLOSED FUSES.

NATIONAL ELECTRICAL CODE STANDARD.

No. 14763.

Length over all, 5 in.
Diam. of tube, ¾ in.
Diam. of ferrule, .81 in.
Maximum capacity, 30 amp.

No. 14772.

Length over all, 5½ in.
Diam. of tube, 1 in.
Diam. of ferrule, 1.05 in.
Maximum capacity, 60 amp.

No. 14825.

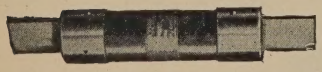
Length over all, 8 in.
Diam. of fuse tube, 1¼ in.
Thickness of terminal, ⅛ in.
Length over ferrules, 5⅞ in.
Width of terminal, ¾in.
Maximum capacity, 100 amp.

No. 14831.

Length over all, 9¾ in.
Diam. of fuse tube, 1¾ in.
Thickness of terminal, 3-16 in.
Length over ferrules, 6⅞ in.
Width of terminal, 1⅛ in.
Maximum capacity, 200 amp.

No. 14837.

Length over all, 11¾ in.
Diam. of fuse tube, 2½ in.
Thickness of terminal, ¼ in.
Length over ferrules, 7⅞ in.
Width of terminal, 1⅝ in.
Maximum capacity, 400 amp.



No. 14855.

Length over all, 13½ in.
Diam. of fuse tube, 3 in.
Thickness of terminal, ¼ in.
Length over ferrules, 8⅞ in.
Width of terminal, 2 in.
Maximum capacity, 600 amp.

251-600 Volts.

Code Word.	List No.	Amp.	Std. Pkg.	List Price, Each.	Refilling List Price, Each.	
Zacakom	14759	3	100	$0.38		Not Refillable.
Zacakon	14760	5	100	.38		
Zacakop	14761	6	100	.38		
Zacakor	14762	8	100	.38		
Zacakos	14763	10	100	.38		
Zacakot	14764	12	100	.38		
Zacakov	14765	15	100	.38		
Zacakow	14766	20	100	.38		
Zacakox	14767	25	100	.38		
Zacakoy	14768	30	100	.38		

Sizes not listed in this class can be obtained at same list.

Zacakoz	14769	35	100	.44	Not Refillable.
Zacaku	14770	40	100	.44	
Zacakub	14771	45	100	.44	
Zacakuc	14772	50	100	.44	
Zacakud	14820	55	100	.44	
Zacakuf	14721	60	100	.44	

Sizes not listed in this class can be obtained at same list.

Zacakug	14822	65	50	1.20	$0.80
Zacakuh	14823	70	50	1.20	.80
Zacakuk	14824	75	50	1.20	.80
Zacakul	14825	80	50	1.20	.80
Zacakum	14826	90	50	1.20	.80
Zacakun	14827	100	50	1.20	.80

Sizes not listed in this class can be obtained at same list.

Zacakup	14828	110	25	2.50	1.20
Zacakur	14829	120	25	2.50	1.20
Zacakus	14830	125	25	2.50	1.20
Zacakut	14831	150	25	2.50	1.20
Zacakuv	14832	175	25	2.50	1.20
Zacakuw	14833	200	25	2.50	1.20

Sizes not listed in this class can be obtained at same list.

Zacakux	14834	225	25	5.25	2.00
Zacakuy	14835	250	25	5.25	2.00
Zacakuz	14836	275	25	5.25	2.00
Zacala	14837	300	25	5.25	2.00
Zacalab	14838	350	25	5.25	2.00
Zacalac	14853	400	25	5.25	2.00

Sizes not listed in this class can be obtained at same list.

Zacalad	14854	450	10	8.00	3.00
Zacalaf	14855	500	10	8.00	3.00
Zacalag	14856	550	10	8.00	3.00
Zacalah	14857	600	10	8.00	3.00

Sizes not listed in this class can be obtained at same list.

The above prices for refilling fuses are for quantities of not less than 100 of one capacity of "Shawmut" N. E. Code Std. Fuses.

SHAWMUT SINGLE POLE BASES.

NATIONAL ELECTRICAL CODE STANDARD.

For 250 Volts and Under.

No. 14735.

5 inches long x 1½ inches wide x 1½ inches high.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zacakip	14735	30 amperes	50	$ .40

No. 14736.

6¼ inches long x 1½ inches wide x 1⅞ inches high.

Zacakir	14736	60 amperes	50	.75

No. 14737.

10 inches long x 2 inches wide x 2 7/16 inches high.

Zacakis	14737	100 amperes	50	1.40

No. 14738.

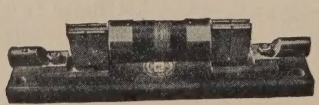
12 inches long x 2¼ inches wide x 3 3/16 inches high.

Zacakit	14738	200 amperes	50	2.75

No. 14739.

14¾ inches long x 2¾ inches wide x 3½ inches high.

Zacakiv	14739	400 amperes	25	7.00



No. 14740.

17¾ inches long x 3 inches wide x 4 1/16 inches high.

Zacakiw	14740	600 amperes	10	11.00

30 amp. and 60 amp. bases furnished in both slate and porcelain.
All cut-outs above 30 amps. are equipped with solder lugs.

SHAWMUT SINGLE POLE BASES.

NATIONAL ELECTRICAL CODE STANDARD.

251-600 Volts.

No. 14729.

8¼ inches long x 1¾ inches wide x 1⅞ inches high.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zacakig	14729	30 amperes	50	$ .60

No. 14730.

8½ inches long x 1¾ inches wide x 2 3/16 inches high.

Zacakih	14730	60 amperes	50	.90

No. 14731.

12 inches long x 2 inches wide x 2 11/16 inches high.

Zacakik	14731	100 amperes	50	1.75

No. 14732.

14½ inches long x 2½ inches wide x 3 5/16 inches high.

Zacakil	14732	200 amperes	50	3.00

No. 14733.

17¾ inches long x 3 inches wide x 3⅞ inches high.

Zacakim	14733	400 amperes	25	8.00

No. 14734.

20¾ inches long x 3½ inches wide x 4½ inches high.

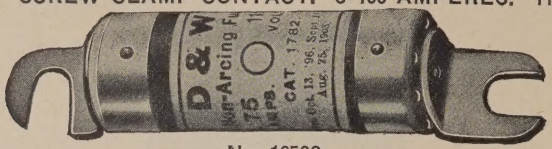
Zacakin	14734	600 amperes	10	12.00

30 amp. and 60 amp. bases furnished in both slate and porcelain.
All cut-outs above 30 amperes are equipped with solder lugs.

D. AND W. FUSES.

PANEL CARTRIDGE FUSES.

TYPE "A" SCREW CLAMP CONTACT. 3-100 AMPERES. 110 VOLTS.



No. 16592.

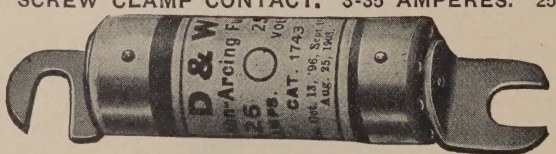
Construction of Fuses 3-75 Amperes.

No. 16595.

Construction of Fuses from 76-100 Amperes.

Code Word.	List No.	Mfr. No.	Ampere Capacity.	Center Inches.	Package Net Weight.	Package Quantity.	List Price, Each.
Zacisiy	16573	1763	3	2½	4 Lbs.	100	$ .25
Zacisiz	16574	1764	4	2½	4 Lbs.	100	.25
Zaciso	16575	1765	5	2½	4 Lbs.	100	.25
Zacisob	16576	1766	6	2½	4 Lbs.	100	.25
Zacisoc	16577	1767	8	2½	4 Lbs.	100	.25
Zacisod	16578	1768	10	2½	4 Lbs.	100	.25
Zacisof	16579	1769	12	2½	4 Lbs.	100	.25
Zacisog	16621	1770	15	2½	4 Lbs.	100	.25
Zacisoh	16581	1171	18	2½	4 Lbs.	100	.25
Zacisok	16582	1772	25	2½	4 Lbs.	100	.25
Zacisol	16583	1773	30	2½	4 Lbs.	100	.25
Zacisom	16584	1774	35	2½	4 Lbs.	100	.34
Zacison	16585	1775	40	2½	4 Lbs.	100	.34
Zacisop	16586	1776	45	2½	4 Lbs.	100	.34
Zacisor	16587	1777	50	2½	4 Lbs.	100	.34
Zacisos	16588	1778	55	2½	4 Lbs.	100	.34
Zacisot	16589	1779	60	2½	4 Lbs.	100	.34
Zacisov	16590	1780	65	2½	4 Lbs.	100	.86
Zacisow	16591	1781	70	2½	4 Lbs.	100	.86
Zacisox	16592	1782	75	2½	4 Lbs.	100	.86
Zacisoy	16593	1783	80	3½	14 Lbs.	100	.86
Zacisoz	16594	1784	90	3½	14 Lbs.	100	.86
Zacisu	16595	1785	100	3½	14 Lbs.	100	.86

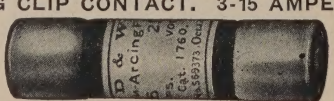
TYPE "A" SCREW CLAMP CONTACT. 3-35 AMPERES. 250 VOLTS.



No. 49772.

Zabegov	49762	1733	3	2½	4 Lbs.	100	.25
Zabegow	49763	1736	6	2½	4 Lbs.	100	.25
Zabegox	49764	1734	4	2½	4 Lbs.	100	.25
Zabegoz	49765	1735	5	2½	4 Lbs.	100	.25
Zabegu	49766	1737	8	2½	4 Lbs.	100	.25
Zabegub	49767	1738	10	2½	4 Lbs.	100	.25
Zabegud	49768	1739	12	2½	4 Lbs.	100	.25
Zabeguf	49769	1740	15	2½	4 Lbs.	100	.25
Zabegug	49770	1741	18	2½	4 Lbs.	100	.25
Zabeguh	49771	1742	20	2½	4 Lbs.	100	.25
Zabeguk	49772	1743	25	2½	4 Lbs.	100	.25
Zabegul	49773	1744	30	2½	4 Lbs.	100	.25
Zabegum	49774	1745	35	2½	4 Lbs.	100	.34

TYPE "C" SPRING CLIP CONTACT. 3-15 AMPERES. 250 VOLTS.



No. 49782.

Zabegun	49775	1753	3	1¾	1½ Lbs.	100	.18
Zabegup	49776	1754	4	1¾	1½ Lbs.	100	.18
Zabegur	49777	1755	5	1¾	1½ Lbs.	100	.18
Zabegus	49778	1756	6	1¾	1½ Lbs.	100	.18
Zabegut	49779	1757	8	1¾	1½ Lbs.	100	.18
Zabeguv	49780	1758	10	1¾	1½ Lbs.	100	.18
Zabeguw	49781	1759	12	1¾	1½ Lbs.	100	.18
Zabegux	49782	1760	15	1¾	1½ Lbs.	100	.18

D. AND W. FUSES.

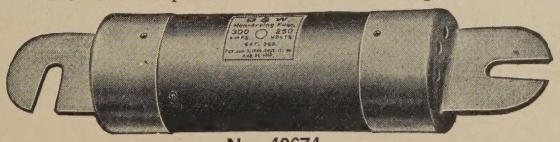
TYPE "A" SCREW CLAMP CONTACT.

3-500 Amperes, 250 Volts. Indicating Cartridge Fuses.

No. 49658.

Construction of Fuses 3-125 Amperes.

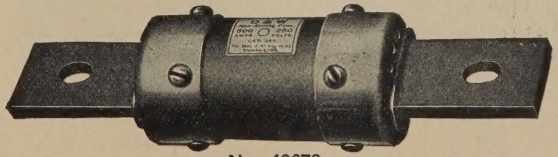
Code Word.	List No.	Mfr. No.	Ampere Capacity.	Center, Inches.	For Cut-Out.	Package, Net Weight.	Package Quantity.	List Price, Each.
Zabefid	49642	203	3 amperes	2 9-16	6 amperes	3 lbs.	100	$0.25
Zabefif	49643	204	4 amperes	2 9-16	6 amperes	3 lbs.	100	.25
Zabefig	49644	205	5 amperes	2 9-16	6 amperes	3 lbs.	100	.25
Zabefih	49645	206	6 amperes	2 9-16	6 amperes	3 lbs.	100	.25
Zabefik	49646	208	8 amperes	3 1-16	15 amperes	4 lbs.	100	.27
Zabefil	49647	210	10 amperes	3 1-16	15 amperes	4 lbs.	100	.27
Zabefim	49648	312	12 amperes	3 1-16	15 amperes	4 lbs.	100	.27
Zabefin	49649	215	15 amperes	3 1-16	15 amperes	4 lbs.	100	.27
Zabefip	49650	220	20 amperes	3 13-16	30 amperes	7 lbs.	100	.31
Zabefir	49651	218	18 amperes	3 13-16	30 amperes	7 lbs	100	.31
Zabefis	49652	225	25 amperes	3 13-16	30 amperes	7 lbs	100	.31
Zabefit	49653	230	30 amperes	3 13-16	30 amperes	7 lbs.	100	.31
Zabefiv	49654	235	35 amperes	4 9-16	60 amperes	12 lbs.	100	.36
Zabefiw	49655	240	40 amperes	4 9-16	60 amperes	12 lbs.	100	.36
Zabefix	49656	245	45 amperes	4 9-16	60 amperes	12 lbs.	100	.36
Zabefiz	49657	250	50 amperes	4 9-16	60 amperes	12 lbs.	100	.36
Zabefo	49658	260	60 amperes	4 9-16	60 amperes	12 lbs.	100	.36
								Reload, Price.
Zabefob	49659	265	65 amperes	5 13-16	100 amperes	13 lbs.	50	.86 .57
Zabefod	49660	270	70 amperes	5 13-16	100 amperes	13 lbs.	50	.86 .57
Zabefof	49661	275	75 amperes	5 13-16	100 amperes	13 lbs.	50	.86 .57
Zabefog	49662	280	80 amperes	5 13-16	100 amperes	13 lbs.	50	.86 .57
Zabefoh	49663	290	90 amperes	5 13-16	100 amperes	13 lbs.	50	.86 .57
Zabefok	49664	300	100 amperes	5 13-16	100 amperes	13 lbs.	50	.86 .57
Zabefol	49665	310	100 amperes	5 13-16	100 amperes	7 lbs.	25	2.00 .90
Zabefom	49666	320	120 amperes	5 13-16	100 amperes	7 lbs.	25	2.00 .90
Zabefon	49667	325	125 amperes	5 13-16	100 amperes	7 lbs.	25	2.00 .90



No. 49674.

Construction of Fuses from 126-300 Amperes.

Zabefos	49668	330	150 amperes	6¾	200 amperes	16 lbs.	25	2.00 .90
Zabefor	49669	335	175 amperes	6¾	200 amperes	16 lbs.	25	2.00 .90
Zabefos	49670	340	200 amperes	6¾	200 amperes	16 lbs.	25	2.00 .90
Zabefot	49671	345	225 amperes	6¾	200 amperes	16 lbs.	25	3.40 1.48
Zabefov	49672	350	250 amperes	6¾	200 amperes	16 lbs.	25	3.40 1.48
Zabefow	49673	355	275 amperes	6¾	200 amperes	16 lbs.	25	3.40 1.48
Zabefox	49674	360	300 amperes	6¾	200 amperes	16 lbs.	25	3.40 1.48



No. 49678.

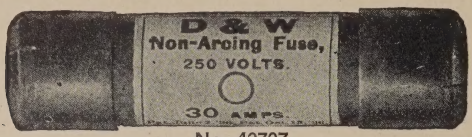
Construction of Fuses from 301-500 Amperes.

Zabefoz	49675	365	350 amperes	6¾	400 amperes	40 lbs.	25	3.40 1.48
Zabefu	49676	370	400 amperes	6¾	400 amperes	40 lbs.	25	3.40 1.48
Zabefub	49677	375	450 amperes	6¾	400 amperes	16 lbs.	10	5.20 2.00
Zabefud	49678	380	500 amperes	6¾	400 amperes	16 lbs.	10	5.20 2.00

D. AND W. FUSES.

TYPE "C" SPRING CLIP CONTACT.

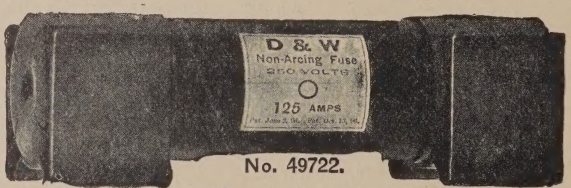
3-500 Amperes, 250 Volts. Indicating Cartridge Fuses.



No. 49707.

Construction of Fuses 3-60 Amperes.

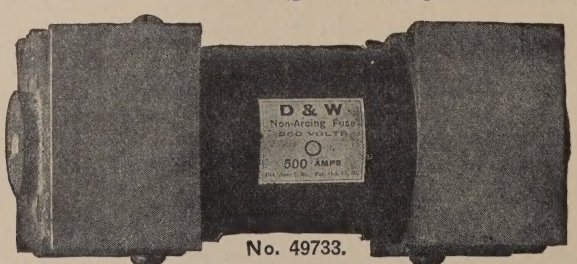
Code Word.	List No.	Mfr. No.	Ampere Capacity.	Center, Inches.	For Cut-Out.	Quantity Package.	List Price, Each.
Zabegad	49696	66326	3	2½	30 amperes.....	100	$0.25
Zabegaf	49697	66327	4	2½	30 amperes.....	100	.25
Zabegag	49698	66328	5	2½	30 amperes.....	100	.25
Zabegah	49699	66329	6	2½	30 amperes.....	100	.25
Zabegak	49700	66330	8	2½	30 amperes.....	100	.25
Zabegal	49701	66331	10	2½	30 amperes.....	100	.25
Zabegam	49702	66333	12	2½	30 amperes.....	100	.25
Zabegan	49703	66335	15	2½	30 amperes.....	100	.25
Zabegap	49704	66336	18	2½	30 amperes.....	100	.25
Zabegar	49705	66337	20	2½	30 amperes.....	100	.25
Zabegas	49706	66339	25	2½	30 amperes.....	100	.25
Zabegat	49707	66341	30	2½	30 amperes.....	100	.25
Zabegav	49708	66343	35	3⅝	60 amperes.....	100	.33
Zabegaw	49709	66345	40	3⅝	60 amperes.....	100	.33
Zabegax	49710	66347	45	3⅝	60 amperes.....	100	.33
Zabegaz	49711	66349	50	3⅝	60 amperes.....	100	.33
Zabege	49712	66351	55	3⅝	60 amperes.....	100	.33
Zabegeb	49713	66353	60	3⅝	60 amperes.....	100	.33



No. 49722.

Construction of Fuses from 61-125 Amperes.

								Reload Price.
Zabeged	49714	66354	65	4½	100 amperes.....	50	.86	.57
Zabegef	49715	66355	70	4½	100 amperes.....	50	.86	.57
Zabegeg	49716	66356	75	4½	100 amperes.....	50	.86	.57
Zabegeh	49717	66357	80	4½	100 amperes.....	50	.86	.57
Zabegek	49718	66359	90	4½	100 amperes.....	50	.86	.57
Zabegel	49719	66361	100	4½	100 amperes.....	50	.86	.57
Zabegem	49720	66363	110	4½	100 amperes.....	25	2.00	.90
Zabegen	49721	66365	120	4½	100 amperes.....	25	2.00	.90
Zabegep	49722	66367	125	4½	100 amperes.....	25	2.00	.90



No. 49733.

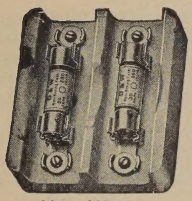
Construction of Fuses from 126-500 Amperes.

Zabeger	49723	66369	150	6	200 amperes.....	25	5.00	2.00
Zabeges	49724	66371	175	6	200 amperes.....	25	5.00	2.00
Zabeget	49725	66373	200	6	200 amperes.....	25	5.00	2.00
Zabegev	49726	66375	225	6	200 amperes.....	25	5.00	2.00
Zabegew	49727	66377	250	6	200 amperes.....	25	5.00	2.00
Zabegex	49728	66379	275	6	200 amperes.....	25	5.00	2.00
Zabegez	49729	66381	300	6	200 amperes.....	25	5.00	2.00
Zabegi	49730	66383	350	6	400 amperes.....	25	6.00	3.00
Zabegib	49731	66385	400	6	400 amperes.....	25	6.00	3.00
Zabegid	49732	66387	450	6	400 amperes.....	10	6.00	3.00
Zabegif	49733	66389	500	6	400 amperes.....	10	6.00	3.00

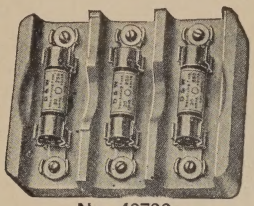
D. AND W. FUSES.

TYPE "C" SPRING CLIP CONTACT.

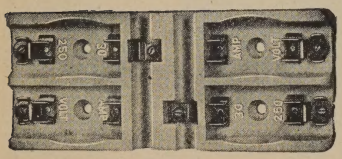
0-400 Amperes, 250 Volts. Cartridge Fuse Cut-Outs.



No. 49735.



No. 49736.



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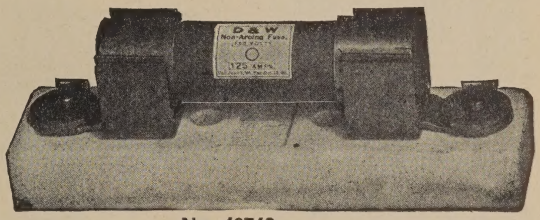
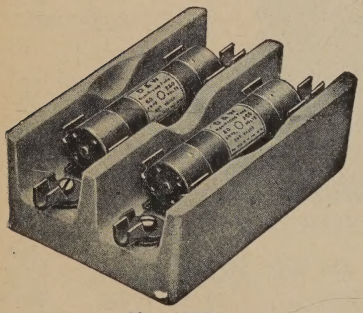
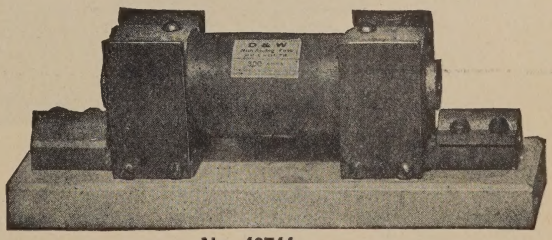


No. 49743.



No. 49741.



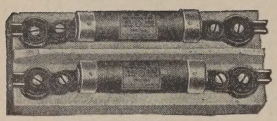
No. 49744.

Code Word.	List No.	Mfr. No.	Ampere Capacity.	Description.	Package Quantity.	Package, Net Weight, Pounds.	List Price, Each.
Zabegig	49734	51759	30	Sngle Pole Slate.....	50	28	$0.80
Zabegih	49735	9551	30	Double Pole Porcelain.....	50	87	.85
Zabegik	49736	9552	30	Triple Pole Porcelain.....	50	133	1.30
Zabegil	49737	9553	30	Double Pole Single Branch Porcelain	50	153	1.00
Zabegim	49738	9554	30	Triple Pole Single Branch Porcelain	50	258	1.85
Zabegin	49739	51760	30	Double Pole Double Branch Porcelain	50	196	1.50
Zabegip	49740	51761	60	Single Pole Slate.....	50	48	1.10
Zabegir	49741	51753	60	Double Pole Porcelain.....	50	127	1.80
Zabegis	49742	51755	60	Triple Pole Porcelain.....	50	184	2.70
Zabegit	49743	51757	100	Single Pole Porcelain.....	50	81	1.40
Zabegiv	49744	51763	200	Sngle Pole Slate.....	50	236	6.00
Zabegiw	49745	51765	400	Single Pole Slate.....	25	140	8.00

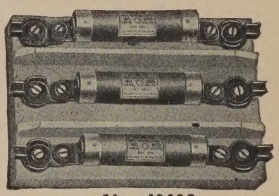
D. AND W. FUSES.

TYPE "A" SCREW CLAMP CONTACT.

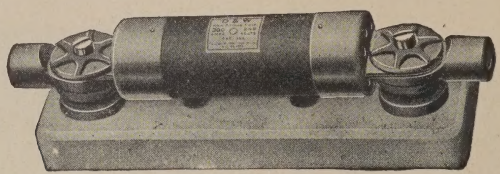
0-400 Amperes. 250 Volt. Cartridge Fuse Cut-Outs.



No. 49689.



No. 49690.



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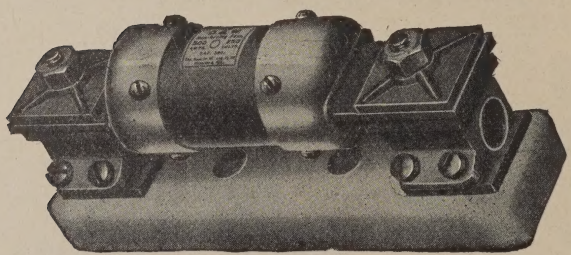


No. 49695.

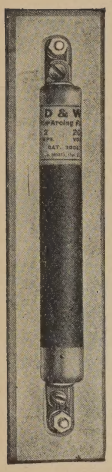
Code Word.	List No.	Mfr. No.	Ampere Capacity.	Description.	Package, Quantity.	Package, Net Wgt.	List Price, Each.
Zabefuf	49679	1254	6	Single Pole Slate.....	50	18 lbs.	$0.60
Zabefug	49680	1256	6	Double Pole Porcelain..	50	39 lbs.	.72
Zabefuh	49681	1257	6	Triple Pole Porcelain...	50	70 lbs.	1.00
Zabefuk	49682	1255	15	Single Pole Slate.....	50	33 lbs.	.70
Zabeful	49683	1258	15	Double Pole Porcelain..	50	48 lbs.	.88
Zabefum	49684	1259	15	Triple Pole Porcelain...	50	84 lbs.	1.20
Zabefun	49685	1266	30	Single Pole Slate.....	50	40 lbs.	.80
Zabefup	49686	1260	30	Double Pole Porcelain..	50	74 lbs.	1.10
Zabefur	49687	1261	30	Triple Pole Porcelain...	50	124 lbs.	1.75
Zabefus	49658	1267	60	Single Pole Slate.....	50	59 lbs.	1.10
Zabefut	49689	1262	60	Double Pole Porcelain..	50	102 lbs.	1.75
Zabefuv	49690	1263	60	Triple Pole Porcelain...	50	179 lbs.	2.65
Zabefuw	49691	1268	100	Single Pole Slate.....	50	129 lbs.	1.90
Zabefux	49692	1264	100	Double Pole Porcelain..	50	210 lbs.	3.40
Zabefuz	49693	1265	100	Triple Pole Porcelain...	25	189 lbs.	5.50
Zabega	49694	1269	200	Single Pole Porcelain..	50	154 lbs.	4.00
Zabegab	49695	1270	400	Single Pole Porcelain..	25	103 lbs.	7.00

D AND W FUSES.

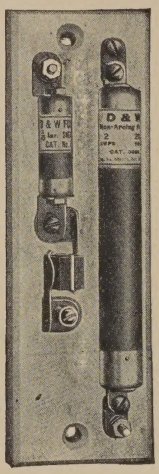
TELEPHONE AND FIRE ALARM PROTECTORS.

For Subscribers' Premises.

Combination Cut-Out Furnished Complete with Fuse and Sneak Coil.



No. 50053.



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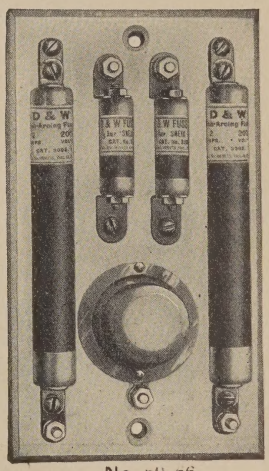


No. 50056.

Code Word.	List No.	Mfr. No.		Package, Quantity.	Package, Net Wgt.	List Price, Each.
Zabeluz	50053	3100	Single Pole Cut-Out.....	50	42 lbs.	$0.75
Zabema	50054	3102	Single Pole Combination Cut-Out..	50	54 lbs.	1.60
Zabemab	50056	3104	Double Pole Combination Cut-Out.	50	101 lbs.	2.50

TELEPHONE AND FIRE ALARM FUSES.

1-4 AMPERE, 2000 VOLTS. TYPE "A" SCREW CLAMP CONTACT.

			Ampere Capacity.	Centers, Inches.	Package, Quantity.	Package, Net Wgt.	
Zabemac	50055	3001	1 ampere	5 5/32	25	1½ lbs.	$0.27
Zabemad	50062	3002	2 ampere	5 5/32	25	1½ lbs.	.27
Zabeman	50063	3003	3 ampere	5 5/32	25	1½ lbs.	.27
Zabemap	50064	3004	4 ampere	5 5/32	25	1½ lbs.	.27

SNEAK COILS.

FOR COMBINATION CUT-OUTS.

				Length, Inches.			
Zabemaf	50057	3110	1/10 ampere	1⅞	25	½ lbs.	.29
Zabemag	50058	3210	2/10 ampere	1⅞	25	½ lbs.	.29
Zabemah	50059	3310	3/10 ampere	1⅞	25	½ lbs.	.29
Zabemak	50060	3410	4/10 ampere	1⅞	25	½ lbs.	.29
Zabemal	50061	3510	5/10 ampere	1⅞	25	½ lbs.	.29

For telephone service we recommend a 3/10 ampere sneak coil, and for fire alarm service a 5/10 ampere sneak coil.

D. AND W. FUSES.

TYPE "A" SCREW CLAMP CONTACT. INDICATING CARTRIDGE FUSES. 3-300 AMPERES. 500 VOLT.

No. 50030.

Construction of Fuses from 3-125 Amperes.

Code Word.	List No.	Mfr. No.	Ampere Capacity.	Center Inches.	For Cut-out.	Package Net Weight.	List Price, Each.
Zabeliw	50015	503	3	5 7-16	10 Amperes	7 Lbs.	$ .38
Zabelix	50016	504	4	5 7-16	10 Amperes	7 Lbs.	.38
Zabeliz	50017	506	6	5 7-16	10 Amperes	7 Lbs.	.38
Zabelo	50018	508	8	5 7-16	10 Amperes	7 Lbs.	.38
Zabelob	50019	510	10	5 7-16	10 Amperes	7 Lbs.	.38
Zabelod	50020	512	12	6 1-16	25 Amperes	14 Lbs.	.40
Zabelof	50021	514	14	6 1-16	25 Amperes	14 Lbs.	.40
Zabelog	50022	516	16	6 1-16	25 Amperes	14 Lbs.	.40
Zabeloh	50023	518	18	6 1-16	25 Amperes	14 Lbs.	.40
Zabelok	50024	520	20	6 1-16	25 Amperes	14 Lbs.	.40
Zabelol	50025	525	25	6 1-16	25 Amperes	14 Lbs.	.40
Zabelom	50026	530	30	6¾	50 Amperes	20 Lbs.	.44
Zabelon	50027	535	35	6¾	50 Amperes	20 Lbs.	.44
Zabelop	50028	540	40	6¾	50 Amperes	20 Lbs.	.44
Zabelor	50029	545	45	6¾	50 Amperes	20 Lbs.	.44
Zabelos	50030	550	50	6¾	50 Amperes	20 Lbs.	.44

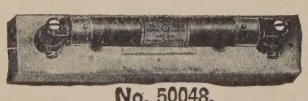
Code Word.	List No.	Mfr. No.	Ampere Capacity.	Center Inches.	For Cut-out.	Package Net Weight.	List Price, Each.	Reload Price.
Zabelot	50031	560	60	7½	100 Amperes	18 Lbs.	$1.20	$ .80
Zabelov	50032	565	65	7½	100 Amperes	18 Lbs.	1.20	.80
Zabelow	50033	570	70	7½	100 Amperes	18 Lbs.	1.20	.80
Zabelox	50034	575	75	7½	100 Amperes	18 Lbs.	1.20	.80
Zabeloz	50035	580	80	7½	100 Amperes	18 Lbs.	1.20	.80
Zabelu	50036	590	90	7½	100 Amperes	18 Lbs.	1.20	.80
Zabelub	50037	600	100	7½	100 Amperes	18 Lbs.	1.20	.80
Zabelud	50038	610	110	7½	100 Amperes	9 Lbs.	2.50	1.20
Zabeluf	50039	620	120	7½	100 Amperes	9 Lbs.	2.50	1.20
Zabelug	50040	625	125	7½	100 Amperes	9 Lbs.	2.50	1.20

No. 50047.

Construction of Fuses from 126-300 Amperes.

Zabeluh	50041	630	150	8¼	200 Amperes	23 Lbs	2.50	1.20
Zabeluk	50042	635	175	8¼	200 Amperes	23 Lbs.	2.50	1.20
Zabelul	50043	640	200	8¼	200 Amperes	23 Lbs.	2.50	1.20
Zabelum	50044	645	225	8¼	200 Amperes	23 Lbs.	5.25	2.00
Zabelun	50045	650	250	8¼	200 Amperes	23 Lbs.	5.25	2.00
Zabelup	50046	655	275	8¼	200 Amperes	23 Lbs.	5.25	2.00
Zabeur	50047	660	300	8¼	200 Amperes	23 Lbs.	5.25	2.00

0-200 AMPERE, 500 VOLT CUT-OUTS. TYPE "A" SCREW CLAMP CONTACT.



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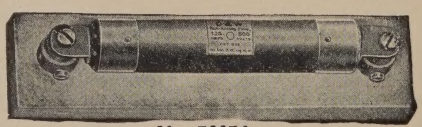

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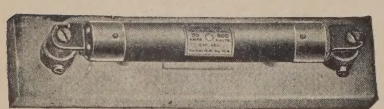

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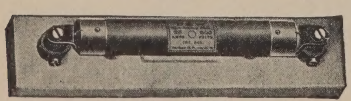


No. 50050.

No. 50052.

Code Word.	List No.	Mfr. No.	Capacity, Maximum.	Center Inches.	Package Net Weight.	List Price. Each.
Zabelus	50048	50010	10 Amperes	5 7-16	45 Ibs.	.90
Zabelut	50049	50025	25 Amperes	6 1-16	59 Lbs.	1.00
Zabeluv	50050	50050	50 Amperes	6¾	84 Lbs.	1.50
Zabeluw	50051	50100	100 Amperes	7½	114 Lbs.	1.75
Zabelux	50052	50300	200 Amperes	8¼	185 Lbs.	4.00

D. AND W. FUSES.

TYPE "C" SPRING CLIP CONTACT. 3-500 AMPERES. 500 VOLTS. INDICATING CARTRIDGE FUSES.

No. 50082.

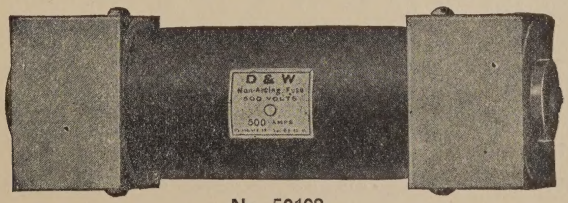
Construction of Fuses from 3-60 Amperes.

Code Word.	List No.	Mfr. No.	Ampere Capacity.	Length Over All. Inches.	For Cut-Out.	Package, Net Wgt.	Package, Quantity.	List Price, Each.
Zabemax	50070	5003	3	4⅝	15 amperes	6 lbs.	100	$0.38
Zabemaz	50071	5004	4	4⅝	15 amperes	6 lbs.	100	.38
Zabeme	50072	5006	6	4⅝	15 amperes	6 lbs.	100	.38
Zabemeb	50073	5008	8	4⅝	15 amperes	6 lbs.	100	.38
Zabemed	50074	5010	10	4⅝	15 amperes	6 lbs.	100	.38
Zabemef	50075	5012	12	4⅝	15 amperes	6 lbs.	100	.38
Zabemeg	50076	5014	14	4⅝	15 amperes	6 lbs.	100	.38
Zabemeh	50077	5015	15	4⅝	15 amperes	6 lbs.	100	.38
Zabemek	50078	5016	16	5	30 amperes	15 lbs.	100	.40
Zabemel	50079	5018	18	5	30 amperes	15 lbs.	100	.40
Zabemem	50080	5020	20	5	30 amperes	15 lbs.	100	.40
Zabemen	50081	5025	25	5	30 amperes	15 lbs.	100	.40
Zabemep	50082	5030	30	5	30 amperes	15 lbs.	100	.40
Zabemer	50083	5035	35	6	60 amperes	23 lbs.	100	.44
Zabemes	50084	5040	40	6	60 amperes	23 lbs.	100	.44
Zabemet	50085	5045	45	6	60 amperes	23 lbs.	100	.44
Zabemev	50086	5050	50	6	60 amperes	23 lbs.	100	.44
Zabemew	50087	5055	55	6	60 amperes	23 lbs.	100	.44
Zabemex	50088	5060	60	6	60 amperes	23 lbs.	100	.44

No. 50097.

Construction of Fuses from 61-125 Amperes.

									Reload Price.
Zabemez	50089	5065	65	6	100 amperes	22 lbs.	50	$1.20	.80
Zabemi	50090	5070	70	6	100 amperes	22 lbs.	50	1.20	.80
Zabemib	50091	5075	75	6	100 amperes	22 lbs.	50	1.20	.80
Zabemid	50092	5080	80	6	100 amperes	22 lbs.	50	1.20	.80
Zabemif	50093	5090	90	6	100 amperes	22 lbs.	50	1.20	.80
Zabemig	50094	5100	100	6	100 amperes	22 lbs.	50	1.20	.80
Zabemih	50095	5110	110	6	100 amperes	11 lbs.	50	2.50	1.20
Zabemik	50096	5120	120	6	100 amperes	11 lbs.	25	2.50	1.20
Zabemil	50097	5125	125	6	100 amperes	11 lbs.	25	2.50	1.20



No. 50108.

Construction of Fuses from 126-500 Amperes.

Zabemim	50098	5150	150	6¾	200 amperes	54 lbs.	25	5.00	2.00
Zabemin	50099	5152	175	6¾	200 amperes	54 lbs.	25	5.00	2.00
Zabemip	50100	5154	200	6¾	200 amperes	54 lbs.	25	5.00	2.00
Zabemir	50101	5156	225	6¾	200 amperes	54 lbs.	25	5.25	2.00
Zabemis	50102	5158	250	6¾	200 amperes	54 lbs.	25	5.25	2.00
Zabemit	50103	5160	275	6¾	200 amperes	54 lbs.	25	5.25	2.00
Zabemiv	50104	5162	300	6¾	200 amperes	54 lbs.	25	5.25	2.00
Zabemiw	50105	5164	350	6¾	400 amperes	75 lbs.	25	6.00	3.00
Zabemix	50106	5166	400	6¾	400 amperes	75 lbs.	25	6.00	3.00
Zabemiz	50107	5168	450	6¾	400 amperes	30 lbs.	10	8.00	3.00
Zabemo	50108	5170	500	6¾	400 amperes	30 lbs.	10	8.00	3.00

500 VOLT PORCELAIN CUT-OUT.

TYPE C OR SPRING CLIP CONTACT.

S. P. Porcelain Cut-Out, Type C.

Zabemob	50109	51015	15	4⅝	42 lbs.	50	.75
Zabemod	50110	51030	30	5	53 lbs.	50	1.00
Zabemof	50111	51060	60	6	70 lbs.	50	1.20
Zabemog	50112	51125	100	6	91 lbs.	50	1.75

S. P. Slate Cut-Out, Type C.

Zabemoh	50113	51300	200	6¾	113 lbs.	50	6.00
Zabemok	50114	51500	400	6¾	60 lbs.	25	8.00

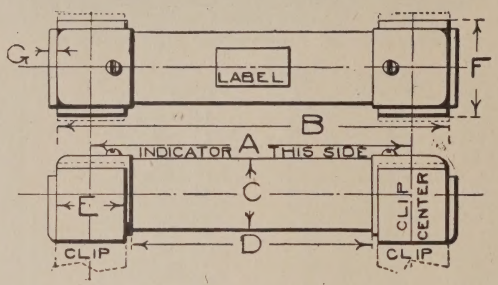
SACHS "NOARK" FUSES.

250 VOLTS, 1-100 AMPS.,

TYPE C (NOARK ST'D),

FLAT CONTACT STAMPED TERMINAL SWITCH STYLE.

For A. C. or D. C. CIRCUITS 250 VOLTS or BELOW. Standard Finish Red Tube. Stamped Brass Ferrules and Terminals. INDICATORS ABOVE 2 AMPS.



Used with TYPE "C" Blocks or on Panel or Switchboards in NOARK C" Contact Clips. "C" Block Contacts, or "C" Back Connection Contacts.

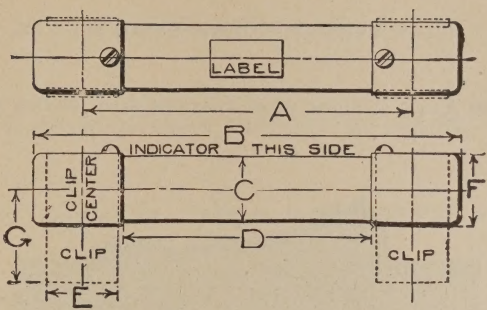
Code Word.	List No.	Mfr. No.	Amperes.	For C Blocks.	DIMENSIONS (Inches). A	B	C	D	E	F	G	Carton Quantity.	Standard Pkg. Quantity.	List Price, Each.	Refilling, List Price, Each.
Jabsok	9079	2401	1	1-50 Amps. Service Box Blocks. 1-2-3 Poles.	2⅞	3¾	¾	2¼	⅝	29-32	.05	10	100	$ .42	$ .32
Jabotsok	9080	2402	2		2⅞	3¾	¾	2¼	⅝	29-32	.05	10	100	.42	.32
Jacksok	9081	2403	3		2⅞	3¾	¾	2¼	⅝	29-32	.05	10	100	.42	.32
Jacobsok	9082	2404	4		2⅞	3¾	¾	2¼	⅝	29-32	.05	10	100	.42	.32
Jagsok	9083	2405	5		2⅞	3¾	¾	2¼	⅝	29-32	.05	10	100	.42	.32
Jailsok	9084	2406	6		2⅞	3¾	¾	2¼	⅝	29-32	.05	10	100	.42	.32
Jakesok	9085	2407	8		2⅞	3¾	¾	2¼	⅝	29-32	.05	10	100	.42	.32
Jamsok	7823	2408	10		2⅞	3¾	¾	2¼	⅝	29-32	.05	10	100	.42	.32
Janussok	7824	2409	12		2⅞	3¾	¾	2¼	⅝	29-32	.05	10	100	.42	.32
Japsok	7825	2410	15		2⅞	3¾	¾	2¼	⅝	29-32	.05	10	100	.42	.32
Japansok	7826	2411	20		2⅞	3¾	¾	2¼	⅝	29-32	.05	10	100	.42	.32
Jauntsok	7723	2412	25		2⅞	3¾	¾	2¼	⅝	29-32	.05	10	100	.42	.32
Javasok	3006	2413	30		2⅞	3¾	¾	2¼	⅝	29-32	.05	10	100	.42	.32
Jeansok	3007	2414	35		2⅞	3¾	¾	2¼	⅝	29-32	.05	10	100	.42	.32
Jedsok	3010	2415	40		2⅞	3¾	¾	2¼	⅝	29-32	.05	10	100	.42	.32
Jehusok	3011	2416	45		2⅞	3¾	¾	2¼	⅝	29-32	.05	10	100	.42	.32
Jellysok	3012	2417	50		2⅞	3¾	¾	2¼	⅝	29-32	.05	10	100	.42	.32
Jerksok	3013	2418	60	60 to 100 Amps. 1-2-3 Poles.	3⅛	4⅛	⅞	2½	¾	1 1-32	.05	5	50	.60	.40
Jerrysok	3014	2419	70		3⅛	4⅛	⅞	2½	¾	1 1-32	.05	5	50	.60	.40
Jerrilsok	3015	2420	75		3⅛	4⅛	⅞	2½	¾	1 1-32	.05	5	50	.60	.40
Jestysok	3016	2421	80		3⅛	4⅛	⅞	2½	¾	1 1-32	.05	5	50	.60	.40
Jettysok	3017	2422	90		3⅛	4⅛	⅞	2½	¾	1 1-32	.05	5	50	.60	.40
Jewsok	3018	2423	100		3⅛	4⅛	⅞	2½	¾	1 1-32	.05	5	50	.60	.40

Minimum refilling quantity, 60.

NOARK FUSES.

SACHS "NOARK" FUSES, 250 VOLTS, 1-50 AMPS., TYPE B (NOARK ST'D), FERRULE CONTACT SPRING CLIP STYLE.

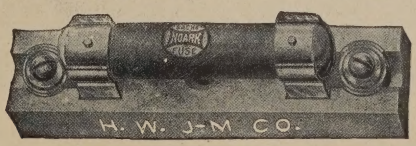
For A. C. or D. C. CIRCUITS. 250 VOLTS or BELOW. Standard Finish, Red Tube, Stamped Brass Ferrules. INDICATORS ABOVE 2 AMPS.



Used with TYPE "B" Blocks, or on Panel or Switchboards in NOARK TYPE "B" Contact Clips. "B" Block Contacts. "B" Back Connection Contacts.

Code Word.	List No.	Mfr. No.	Amperes.	FOR B BLOCKS.	DIMENSIONS (Inches.) A	B	C	D	E	F	G	CARTON Quantity.	Std. Pkg. Quantity.	List Price Each.	Refill'g List Price Each.
Ossinho	4703	2300	1	1-8 Amps. 1-2-3 Poles.	1 13/16	2 3/16	3/8	1 3/8	5/16	.417	15/32	10	100	$ .20	NOT REFILLABLE.
Fish	4704	2301	2		1 13/16	2 3/16	3/8	1 3/8	5/16	.417	15/32	10	100	.20	
Fissure	4705	2302	3		1 13/16	2 3/16	3/8	1 3/8	5/16	.417	15/32	10	100	.20	
Ossiopia	4706	2303	4		1 13/16	2 3/16	3/8	1 3/8	5/16	.417	15/32	10	100	.20	
Fit	4707	2304	5		1 13/16	2 3/16	3/8	1 3/8	5/16	.417	15/32	10	100	.20	
Ossipagina	4708	2305	6		1 13/16	2 3/16	3/8	1 3/8	5/16	.417	15/32	10	100	.20	
Five	4709	2306	8		1 13/16	2 3/16	3/8	1 3/8	5/16	.417	15/32	10	100	.20	
Fix	4710	2307	10	10-15 Amps. 1-2-3 Poles.	2 1/8	2 11/16	3/8	1 5/8	3/8	.417	3/4	10	100	.22	
Ossosorum	4711	2308	12		2 1/8	2 11/16	3/8	1 5/8	3/8	.417	3/4	10	100	.22	
Fizz	4712	2309	15		2 1/8	2 11/16	3/8	1 5/8	3/8	.417	3/4	10	100	.22	
Ossvarius	4713	2310	20	20-30 Amps. 1-2-3 Poles.	2 9/16	3 3/16	1/2	1 7/8	1/2	.560	3/4	10	100	.27	
Ossuclum	4714	2311	25		2 9/16	3 3/16	1/2	1 7/8	1/2	.560	3/4	10	100	.27	
Ossuculi	4715	2312	30		2 9/16	3 3/16	1/2	1 7/8	1/2	.560	3/4	10	100	.27	
Flag	4716	2313	35	35-50 Amps. 1-2-3 Poles.	2 7/8	3 3/4	3/4	2 1/8	5/8	.824	7/8	10	100	.33	$.28
Ossuosarum	4717	2314	40		2 7/8	3 3/4	3/4	2 1/8	5/8	.824	7/8	10	100	.33	.28
Flagrance	4718	2315	45		2 7/8	3 3/4	3/4	2 1/8	5/8	.824	7/8	10	100	.33	.28
Flagrant	4719	2316	50		2 7/8	3 3/4	3/4	2 1/8	5/8	.824	7/8	10	100	.33	.28

SACHS "NOARK" FUSE BLOCKS, 250 VOLTS, 1-50 AMPS., TYPE B (NOARK ST'D). MAIN LINE, 1, 2 & 3 POLES. FOR 1-50 AMPS. B FUSES (FERRULE CONTACT STYLE).



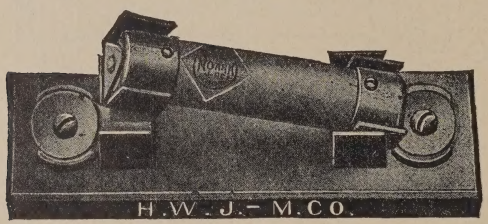
		Mfr. No.	For B Fuses Amperes.	No. of Poles.	Length of Base.	Width of Base.	Center to Center of Contact Clips Along Fuses.	Height Over All Fuse in.	Height of Contact Clips Above Base.	Std. Pkg. Quantity.	List Price Each. With Lugs above 30 Amps.
Flake	4720	3100	1-S	1	4 1/4	1 1/4	1 13/16	1 7/16	11/16	50	.48
Flambeau	4721	3101	10-15	1	4 3/4	1 1/2	2 1/8	1 5/8	1	50	.60
Flame	4722	3102	20-30	1	5	1 1/2	2 9/16	1 3/4	1 1/8	50	.72
Flange	4723	3103	35-50	1	6	1 3/4	2 7/8	2 1/8	1 1/4	50	.96

SACHS "NOARK" FUSE BLOCKS,

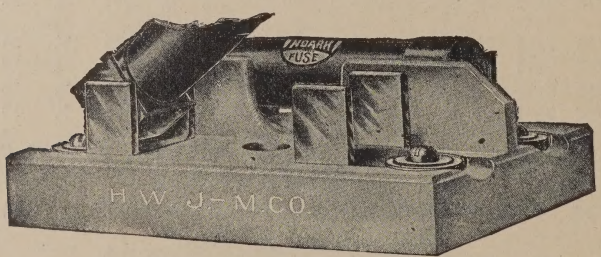
(1, 2 AND 3 POLES), 250 VOLTS, 1-100 AMPS.,

TYPE C (NOARK ST'D).

For 1-100 Amps. C Fuses (Flat Stamped Cont. Switch Style.)



Code Word.	List No.	Mfr. No.	For C Fuses Amperes	No. of Poles	Length of Base	Width of Base	Center to Center of Contact Clips	Height Over All Fuse In.	Height of Contact Clips Above Base	Std. Pkg. Quantity	List Price Each With Lugs
Jowersok	5720	3200	1-50	1	6	1¾	2⅞	2	1 5-32	50	$ .96
Jovevok	5721	3201	60-100	1	6¾	2	3⅜	2 5-16	1 7-16	50	1.30



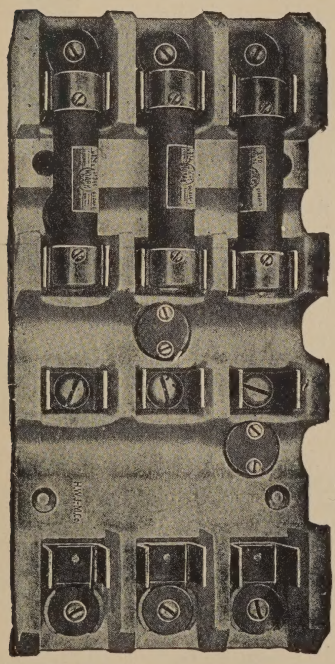
Code Word	List No.	Mfr. No.	For C Fuses Amperes	No. of Poles	Length of Base	Width of Base	Center to Center of Contact Clips	Height Over All Fuse In.	Center to Center of Fuses.	Std. Pkg. Quantity	List Price Each With Lugs
Junervok	5722	3202	1-50	2	5¾	2⅞	2⅞	2 3-32	1½	50	1.76
Junalsok	5723	3203	1-50	3	5¾	4⅜	2⅞	2 3-32	1½	50	2.64
Junosok	5724	3204	60-100	2	6 9-16	3 7-16	3⅜	2⅜	1 13-16	50	2.80
Junersok	5725	3205	60-100	3	6 9-16	5¼	3⅜	2⅜	1 13-16	25	3.80

NOARK BRANCH BLOCKS.

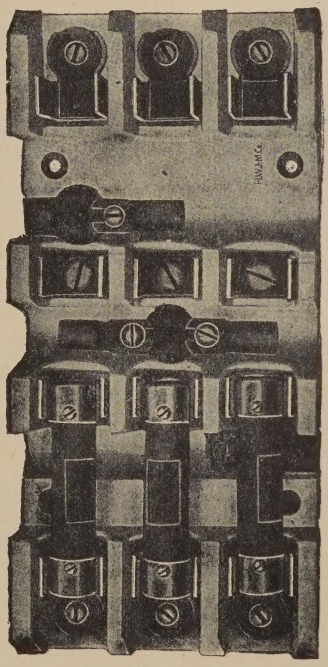
(3 POLES DOUBLE BRANCH), 250 VOLTS.

1-100 AMPS., TYPE C (NOARK ST'D).

FOR 1-100 AMPS. C FUSES (FLAT STAMPED SWITCH CONTACT STYLE).



Standard Continuous Main Line.



Special Double Lug Main Line.

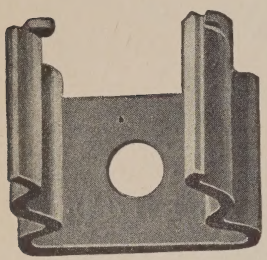
Code Word.	List No.	Mfr. No.	For B. & C. Fuses, Amps.	Type.	No. of Poles, Mains and Branches.	Length of Base.	Width of Base.	Height Over All.	Center to Center of Contact Clips.	Center to Center of Fuses.	Center to Center of Main Line Wires.	Std. Pkg. Quantity.	List Price, Each, With Lugs.
Zadobac	9222	3155	60-100	C	3	2¾	5⅞	3 3/16	3 11/32	1 13/16	2⅜	25	$9.00

Special: Double lug main line contact block, 10 per cent extra.

NOARK FUSE FITTINGS.

NATIONAL ELECTRICAL CODE STANDARD.

Contact Clips. 250 and 600 Volts. 3 to 200 Amps.



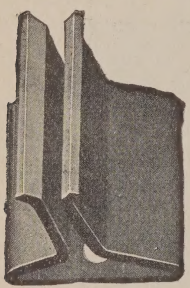
Type B, 250 Volts.

FOR "B" FUSES.

Code Word.	List No.	Mfr. No.	Amperes.	Std. Pkg., Quantity.	List Price, per 100.
Zadahad	27069	3425	3-30	100	$2.50
Zadahaf	27070	3426	31-60	100	6.50
Type B, 600 Volts.					
Zadahag	27071	5650	3-30	100	5.00
Zadahah	27072	5651	31-60	100	7.00

FOR "E" FUSES.

Zadahak	27073	3430	61-100	100	14.00
Zadahal	27074	3431	101-200	100	32.00
Type E, 600 Volts.					
Zadaham	27075	5660	61-100	100	14.00
Zadahan	27076	5661	101-200	100	32.00



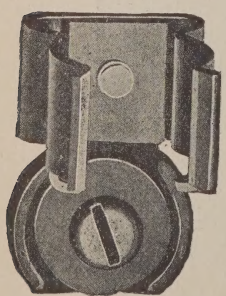
Type E, 250 Volts.

BLOCK CONTACTS.

FOR "B" FUSES.

250 Volts.

					List Price, Each, with Screws, Lugs Above 30 Amperes.
Zadahap	27077	3494	3-30	100	.12
Zadahar	27078	3495	31-60	100	.20



Type B.

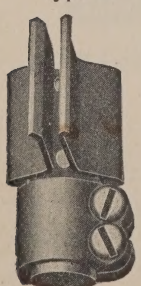
FOR "E" FUSES.

Zadahas	27079	3496	61-100	100	.48
Zadahat	27080	3497	101-200	100	1.00
Zadahav	27081	3498	201-400	50	3.00
Zadahaw	27082	3499	401-600	20	5.00

FOR "B" FUSES.

600 Volts.

Zadahax	27083	5700	3-30	100	.14
Zadahay	27084	5701	31-60	100	.24



Type E.

FOR "E" FUSES.

Zadahaz	27085	5710	61-100	100	.48
Zadahe	27086	5711	101-200	100	1.00
Zadaheb	27087	5712	201-400	50	3.00
Zadahec	27088	5713	401-600	20	8.00

Different capacities cannot be combined to make standard package quantities.

NOARK FUSE FITTINGS.

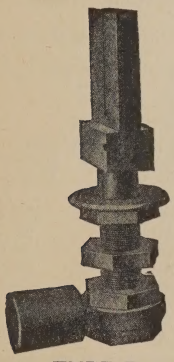
NATIONAL ELECTRICAL CODE STANDARD.

BACK CONNECTION CONTACTS.

TYPE B.

0-600 AMPS. 250 VOLTS.

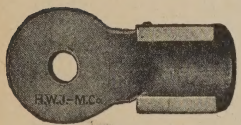
Code Word.	List No.	Mfr. No.	For B and E Fuses, Amperes.	Std. Pkg., Quantity.	List Price, Each.
Zadagug	27051	3565	0-30	100	$0.44
Zadaguh	27052	3566	31-60	100	.60
Zadaguk	27053	3567	61-100	100	2.00
Zadagul	27054	3568	101-200	100	4.00
Zadagum	27055	3569	201-400	50	7.00
Zadagun	27056	3570	401-600	20	11.00



TYPE E.

600 VOLTS.

Zadagup	27057	5750	0-30	100	.48
Zadagur	27058	5751	31-60	100	.65
Zadagus	27059	5752	61-100	100	2.00
Zadagut	27060	5753	101-200	100	4.00
Zadaguv	27061	5754	201-400	50	7.00
Zadaguw	27062	5755	401-600	20	11.00

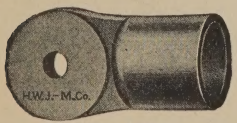


STAMPED LUGS.

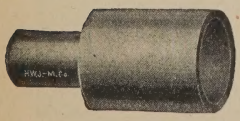
FLAT WIRE LUGS.

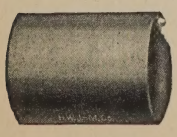
250 AND 600 VOLTS.

			Type B, Amperes.		Per 100.
Zadagux	27063	3686	3-30	100	7.00
Zadaguy	27064	3687	31-60	100	8.00



CAST LUGS.





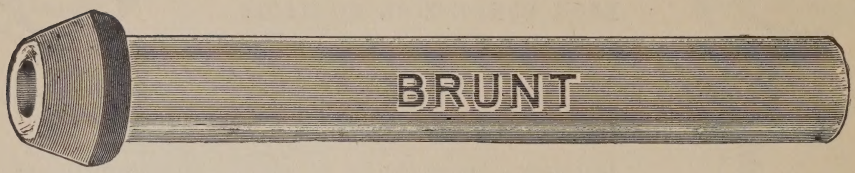
ROUND WIRE LUGS.

250 AND 600 VOLTS. 1-100 AMPS.

			Type E. National Standard.		
Zadaguz	27065	3698	61-100	100	12.00
Zadaha	27066	3699	101-200	100	24.00
Zadahab	27067	3700	201-400	50	50.00
Zadahac	27068	3701	401-600	20	80.00

Different capacities cannot be combined to make standard package quantities.

BRUNT PORCELAIN TUBES.



Tube List dimensions conform to the new rules of the Underwriters' Board.

Prices named hereon are per 1000.

Standard Package in Tubes consists as follows:
All lengths up to and including 6 inches long and up to and including ¾-inch hole, barrel lots or same quantity when packed in cases.
All lengths from 7 inches up to 14 inches long and up to and including ¾-inch hole, 500 lots assorted.
All lengths from 14 inches to 24 inches long inclusive and up to and including ¾-inch hole, 200 lots assorted.
All lengths and sizes not specified above, 100 lots assorted.

Length of in. Under Head.	5-16 Hole, 9-16 Outside Diameter.	⅜ Hole, 11-16 Outside Diameter.	½ Hole, 13-16 Outside Diameter.	⅝ Hole, 15-16 Outside Diameter.	¾ Hole, 1 3-16 Outside Diameter.
½	$11.50	$13.25	.....	.....	.....
1	12.00	13.55	$17.30	$20.00	$28.75
1½	12.80	13.85	18.00	22.00	29.50
2	13.60	14.50	20.00	24.00	31.00
2½	14.40	15.60	23.00	25.40	33.60
3	15.50	18.20	25.60	28.00	36.20
4	17.00	19.70	28.00	24.40	39.00
5	30.60	36.00	42.20	51.00	56.00
6	39.00	46.80	54.40	62.20	70.00
8	72.00	84.00	96.00	108.00	120.00
10	96.00	108.00	120.00	144.00	168.00
12	144.00	156.00	168.00	192.00	216.00
14	168.00	192.00	216.00	240.00	264.00
16	192.00	216.00	240.00	288.00	312.00
18	216.00	240.00	288.00	336.00	360.00
20	240.00	264.00	312.00	360.00	384.00
22	276.00	300.00	336.00	384.00	432.00
24	312.00	336.00	360.00	408.00	480.00

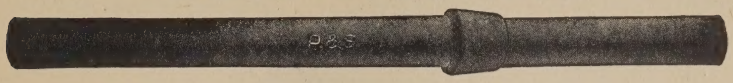
Length of in. Under Head.	1 Hole, 1 7-16 Outside Diameter.	1¼ Hole, 1 13-16 Outside Diameter.	1½ Hole, 2 3-16 Outside Diameter.	1¾ Hole, 2 9-16 Outside Diameter.	2 Hole, 2 15-16 Outside Diameter.	2¼ Hole, 3 5-16 Outside Diameter.	2½ Hole, 3 11-16 Outside Diameter.
½	.....	.....	.....	.....	.....	.....	.....
1	.....	.....	.....	.....	.....	.....	.....
1½	$45.50	.....	.....	.....	.....	.....	.....
2	48.00	.....	.....	.....	.....	.....	.....
2½	49.80	$122.60	$156.00	$198.50	$234.50	$268.00	$303.50
3	52.40	138.00	174.00	220.50	258.50	296.00	325.50
4	65.20	156.00	192.00	239.50	277.00	315.00	353.00
5	82.80	181.00	253.00	341.50	417.00	488.50	568.00
6	93.40	192.00	312.00	453.50	579.50	705.50	832.00
8	168.00	240.00	384.00	581.00	739.00	898.00	1056.00
10	192.00	312.00	456.00	660.00	818.00	977.00	1135.00
12	264.00	456.00	692.00	1021.00	1280.00	1540.00	1800.00
14	288.00	528.00	816.00	1214.00	1531.00	1848.00	2165.00
16	360.00	624.00	912.00	1320.00	1637.00	1954.00	2270.00
18	408.00	720.00	1022.00	1586.00	1951.00	2314.00	2676.00
20	456.00	792.00	1128.00	1761.50	2160.00	2563.00	2966.00
22	492.00	864.00	1236.00	1929.50	2376.00	2822.00	3269.00
24	528.00	936.00	1344.00	2102.00	2592.00	3082.00	3571.00

For glazed tubes add 50 per cent to the above prices.

Note.—Quotations furnished on application on split tubes, 3 inch head floor tubes and special porcelain pieces.

P. & S. SPECIALTIES.

UNGLAZED LONG HEAD TUBES.



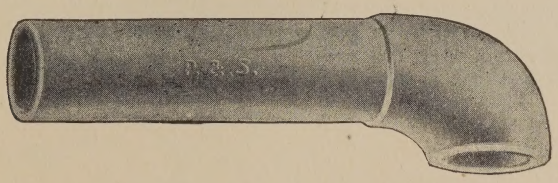
Head 3 Inches Long.

Standard package 100, assorted or of one size.

SCHEDULE 4.

Code Word.	Length under head, ins.	Price, per 100. 6	8	10	12	14	17
Banacre	5/16 inch hole, ⅝ inch outside..	$18.72	$33.40	$43.00	$62.20	$69.88	$79.60
Basacorn	⅜ inch hole, ¾ inch outside..	22.46	42.45	48.38	67.39	79.87	91.20
Bavaloe	½ inch hole, 1⅛ inch outside..	26.11	44.54	53.76	72.57	89.85	105.60
Bedalder	⅝ inch hole, 1⅛ inch outside..	29.85	50.11	64.50	82.94	100.00	124.80
Begamber	¾ inch hole, 1¾ inch outside..	33.60	55.68	75.26	93.31	109.00	134.40
Bepamor	1 inch hole, 1¾ inch outside..	44.83	77.95	86.00	114.04	119.80	153.60

UNGLAZED CURVED END TUBES.

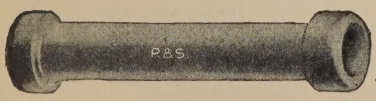


Standard package 50, assorted or of one size.

	Length in ins. under head.	Price per 100. 6	8	10	12	14	16	18
Banincrook	⅜ in. hole, ¾ in. outside.	$30.22	$47.64	$61.71	$73.83	$85.16	$100.63	$113.97
Basincurve	⅝ in. hole, 1⅛ in. outside.	34.30	53.00	71.76	87.17	103.92	127.37	144.12

Any of the above Tubes can be furnished glazed at 100 per cent. additional.

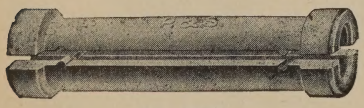
Code Word.	List No.	Mfr. No.		Std. Pkg.	Price, per 100.
Zacehey	9785	37	Curved end tube glazed, ⅝ in. hole, ⅞ in. outside, 3½ in. long	50	26.38
Zacehez	9786	37½	Curved end tube unglazed, ⅝ in. hole, ⅞ in. outside, 3½ in. long	50	18.46



No. 9787.

CROSS-OVER TUBES.

Zacehep	9787	130	Glazed	100	10.60
Zaceher	9788	130½	Unglazed ...	100	7.12



No. 9789.

SPLIT CROSS-OVER TUBES.

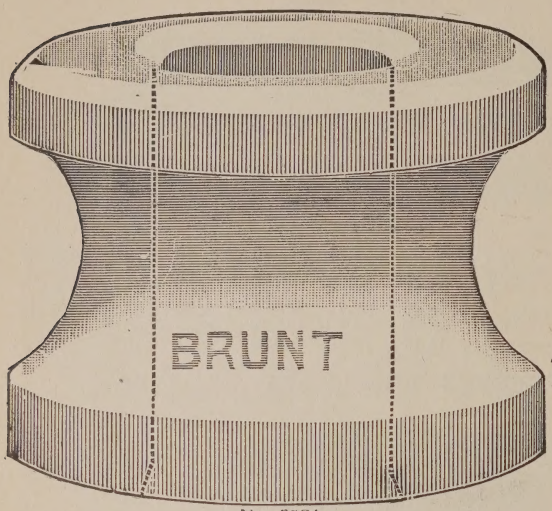
Zacehes	9789	131	Glazed	100	23.75
Zacehet	9790	131½	Unglazed ...	100	18.45

No. 9791.

PANEL BOX BUSHINGS.

Zacehev	9791	55	5/16x1 inch, glazed....	100	13.20
Zacehew	9792	56	⅝x1 inch, glazed....	100	14.25
Zacehex	9793	57	1 x1 inch, glazed....	100	19.50

BRUNT PORCELAIN INSULATORS.



No. 8221.

NO. 0.

Height, 2¼ inches.

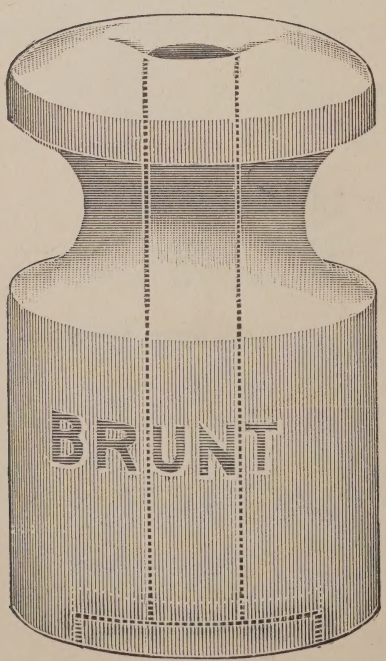
Diameter, 3 inches.

Hole, 1¼ inches.

Groove, 1 inch.

Standard package, 350.

Code Word.	List No.	List Price, per 1000.
Zadevix	**8221**	.....**$146.68**



No. 8222.

NO. 1.

Height, 3 inches.

Diameter, 2⅛ inches.

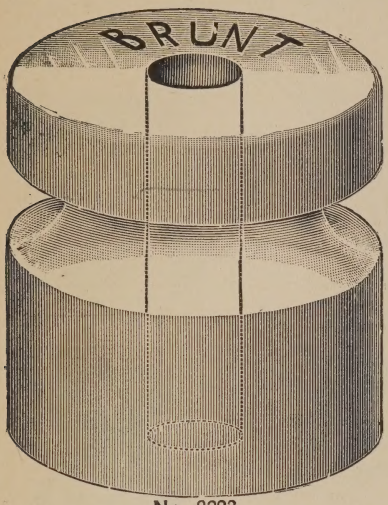
Hole, $\frac{7}{16}$ inch.

Groove, ¾ inch.

Standard package, 650.

Zadeviy	**8222**	..... **88.00**

BRUNT PORCELAIN INSULATORS.



No. 8223.

NO. 2.

Height, 2 inches.

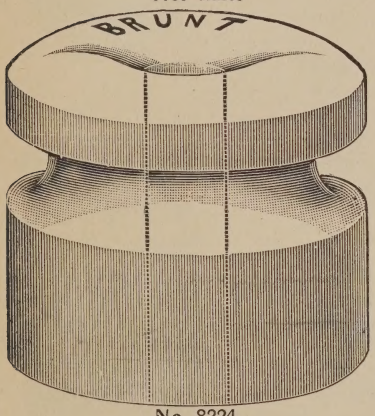
Diameter, 2 inches.

Hole, ½ inch.

Groove, ½ inch.

Standard package, 850.

Code Word.	List No.		List Price, per 1000.
Zadeviz	8223	.....	$41.34



No. 8224.

NO. 3.

Height, 1¾ inches.

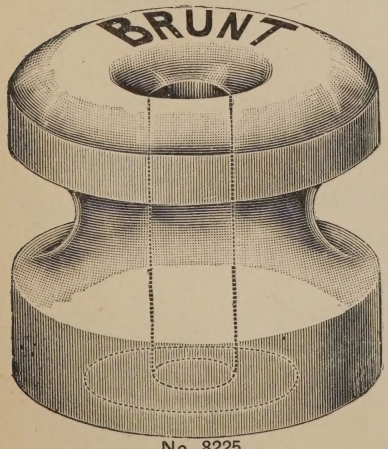
Diameter, 2 inches.

Hole, $\frac{7}{16}$ inch.

Groove, $\frac{7}{16}$ inch.

Standard package, 1000.

Zadevo	8224	.....	34.68



No. 8225.

NO. 5 W. G.

Height, 1¾ inches.

Diameter, 2 inches.

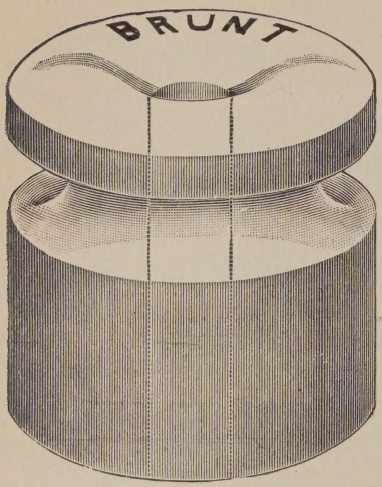
Hole, $\frac{7}{16}$ inch.

Groove, ¾ inch.

Standard package, 1000.

Zadevob	8225	.....	34.68

BRUNT PORCELAIN INSULATORS.



No. 8226.

NO. 3½.

Height, 2 inches.

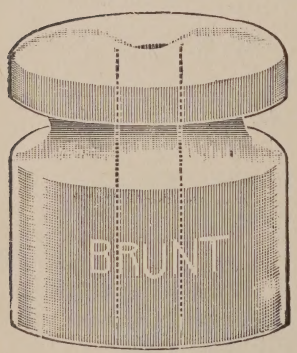
Diameter, 2 inches.

Hole, $\frac{7}{16}$ inch.

Groove, $\frac{7}{16}$ inch.

Standard package, 1000.

Code Word.	List No.		List Price, per 1000.
Zadevoc	8226	.....	$34.68



No. 8227.

NO. 4.

Height, $1\frac{11}{16}$ inches.

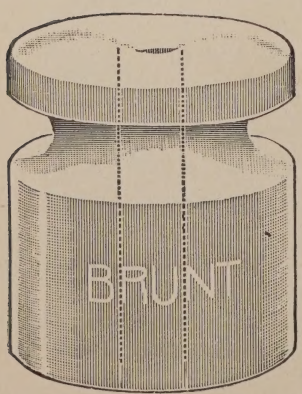
Diameter, 1½ inches.

Hole, ⅜ inch.

Groove, ⅜ inch.

Standard package, 2000.

Zadevod	8227	.....	12.50



No. 8228.

NO. 4½.

Height, 1⅞ inches.

Diameter, 1½ inches.

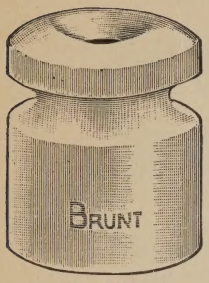
Hole, ⅜ inch.

Groove, $\frac{7}{16}$ inch.

Standard package, 2000.

Zadevof	8228	.....	14.00

BRUNT PORCELAIN INSULATORS.



No. 8199.

No. 5.

Height, 1¼ inches.
Diameter, 1 inch.
Hole, ¼ inch.
Groove, $\frac{5}{16}$ inch.
Standard package, 5000.

Code Word.	List No.	List Price, per 1000.
Zadevor	8199	$8.25

No. 8200.

PONY NO. 5.

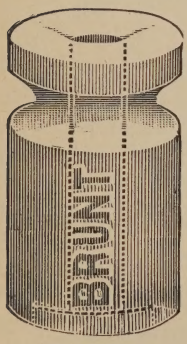
Height, $\frac{15}{16}$ inch.
Diameter, $\frac{13}{16}$ inch.
Hole, $\frac{7}{32}$ inch.
Groove, ⅜ inch.
Standard package, 5000.

Zadevos	8200	10.68

NO. 5½.

Height, $1\frac{9}{16}$ inches
Diameter, 1 inch.
Hole, ¼ inch.
Groove, $\frac{5}{16}$ inch.
Standard package, 5000.

Zadevot	8201	9.00



No. 8201.

NO. 6.

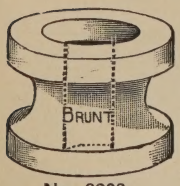
Height, ⅞ inch.
Diameter, $\frac{13}{16}$ inch.
Hole, $\frac{7}{32}$ inch.
Groove, ¼ inch.
Standard package, 5000.

Zadevov	8202	9.00

NO. 7.

Height, ¾ inch.
Diameter, ⅞ inch.
Hole, ¼ inch.
Groove, $\frac{7}{16}$ inch.
Standard package, 5000.

Zadevow	8203	9.00

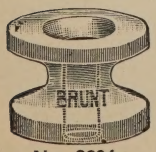


No. 8203.

NO. 7½.

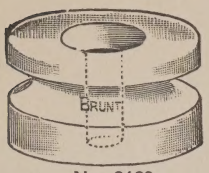
Height, $\frac{9}{16}$ inch.
Diameter, $\frac{13}{16}$ inch.
Hole, $\frac{3}{16}$ inch.
Groove, $\frac{5}{16}$ inch.
Standard package, 5000.

Zadevox	8204	9.00



No. 8204.

BRUNT PORCELAIN INSULATORS.

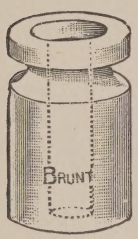


No. 8120.

NO. 8.

Height, $\frac{15}{16}$ inch.
Diameter, 1 inch.
Hole, ¼ inch.
Groove, $\frac{5}{16}$ inch.
Standard package, 5000.

Code Word.	List No.	List Price, per 1000.
Zadevoy	8120	$9.00

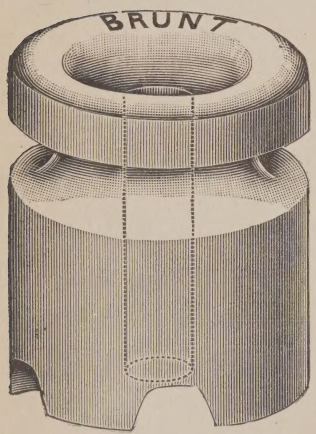


No. 8121.

NO. 9.

Height, 1⅛ inches.
Diameter, ⅝ inch.
Hole, $\frac{3}{16}$ inch.
Groove, $\frac{3}{16}$ inch.
Standard package, 5000.

Zadevoz	8121	9.00



No. 8122.

NO. 10.

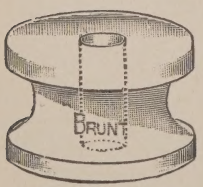
Height, 1¾ inches.
Diameter, 1⅝ inches.
Hole, ⅜ inch.
Groove, ⅜ inch.
Standard package, 2000.

Zadevu	8122	20.00

NO. 10½.

Height, 1⅞ inches.
Diameter, 1⅝ inches.
Hole, ⅜ inch.
Groove, ⅜ inch.
Standard package, 2000.

Zadevub	8123	20.00

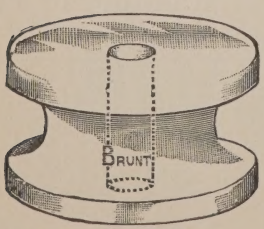


No. 8124.

NO. 11.

Height, $\frac{11}{16}$ inch.
Diameter, 1⅛ inches.
Hole, ¼ inch.
Groove, ½ inch.
Standard package, 3000.

Zadevuc	8124	16.00



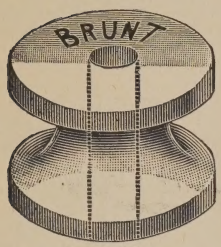
No. 8125.

NO. 12.

Height, $\frac{13}{16}$ inch.
Diameter, 1⅝ inches.
Hole, $\frac{5}{16}$ inch.
Groove, $\frac{9}{16}$ inch.
Standard package, 3000.

Zadevud	8125	18.68

BRUNT PORCELAIN INSULATORS.



No. 8229.

NO. 13.

Height, ¾ inch.

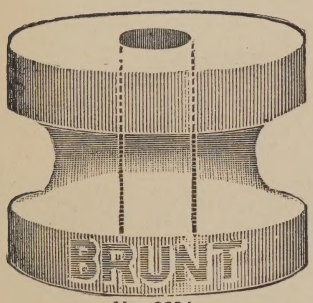
Diameter, $1\frac{5}{16}$ inches.

Hole, ⅛ inch.

Groove, ⅝ inch.

Standard package, 3000.

Code Word.	List No.	List Price, per 1000.
Zadevog	8229	$18.68



No. 8231.

NO. 14.

Height, ¾ inch.

Diameter, ⅞ inch.

Hole, ⅛ inch.

Groove, $\frac{3}{16}$ inch.

Standard package, 3000.

Zadevoh	8230	10.68

NO. 15.

Height, $1\frac{5}{16}$ inches.

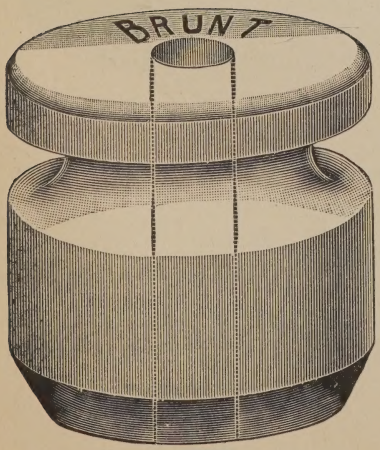
Diameter, 1¾ inches.

Hole, $\frac{7}{16}$ inch.

Groove, ½ inch.

Standard package, 1400.

Zadevok	8231	32.00



No. 8232.

NO. 19.

Height, 1⅞ inches.

Diameter, 2 inches.

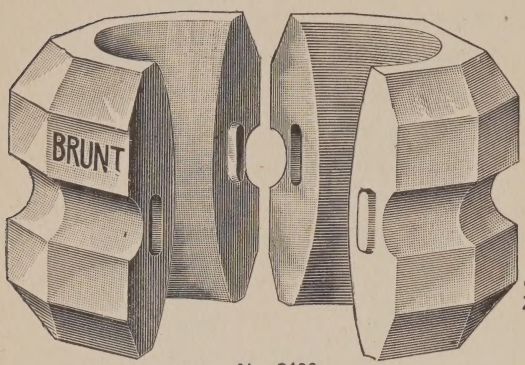
Hole, $\frac{7}{16}$ inch.

Groove, ½ inch.

Standard package, 500.

Zadevol	8232	41.34

BRUNT PORCELAIN INSULATORS.



No. 8196.

NO. 22 (VICTOR).

Height, 1⅝ inches.

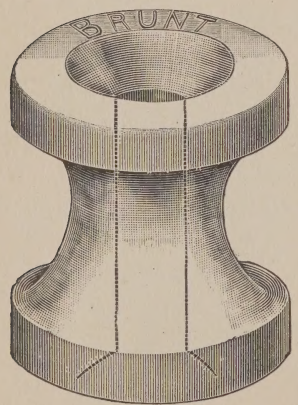
Diameter, 2⅛ inches.

Hole, 1 inch.

Groove, $\frac{5}{16}$ inch.

Standard Package, 1300.

Code Word.	List No.	List Price, per 1000.
Zadevom	8196	.....$42.68



No. 8197.

NO. 23.

Height, 1½ inches.

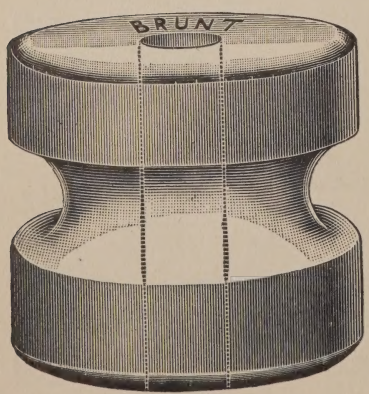
Diameter, 1½ inches.

Hole, ⅜ inch.

Groove, 1 inch.

Standard package, 2000.

Zadevon	8197	.....	29.34



No. 8198.

NO. 24.

Height, 1¾ inches.

Diameter, 1⅞ inches.

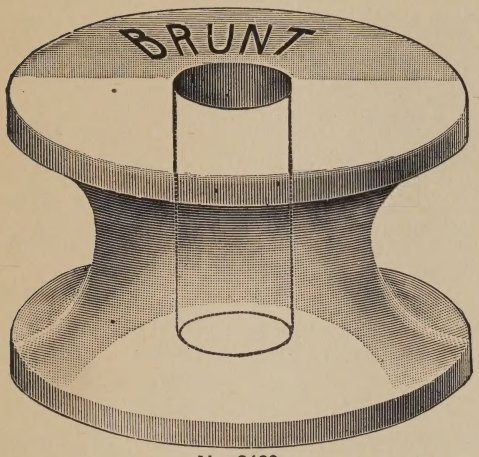
Hole, $\frac{7}{16}$ inch.

Groove, ⅝ inch.

Standard package, 1000.

Zadevop	8198	.....	41.34

BRUNT PORCELAIN INSULATORS.



No. 8126.

NO. 25.

Height, 1½ inches.

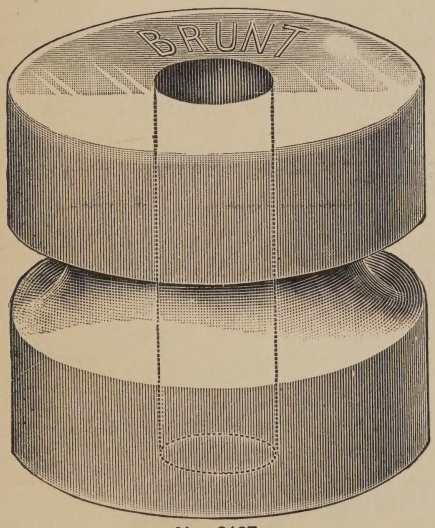
Diameter, 2½ inches.

Hole, $\frac{11}{16}$ inch.

Groove, $1\frac{1}{16}$ inches.

Standard package, 750.

Code Word.	List No.	List Price, per 1000.
Zadevug	8126	$73.34



No. 8127.

NO. 26.

Height, 2 inches.

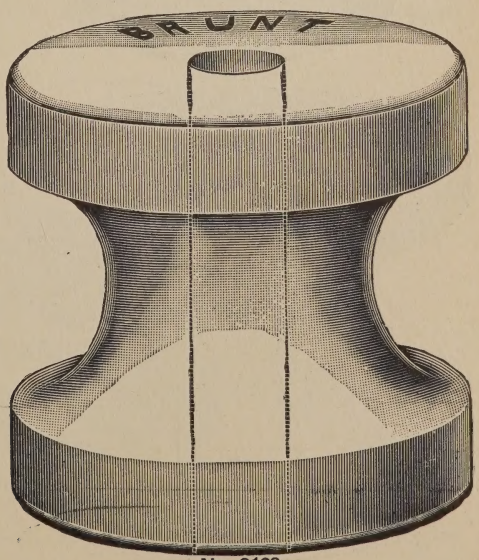
Diameter, 2¼ inches.

Hole, ⅝ inch.

Groove, $\frac{9}{16}$ inch.

Standard package, 800.

Zadevog 8127 ..... 74.68



No. 8128.

NO. 29.

Height, 2⅜ inches.

Diameter, 2½ inches.

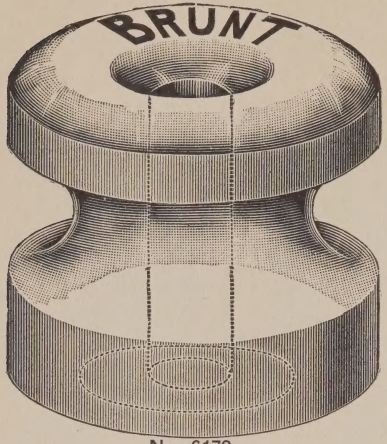
Hole, ½ inch.

Groove, 1⅜ inches.

Standard package, 400.

Zadevuh 8128 ..... 100.00

BRUNT PORCELAIN INSULATORS.



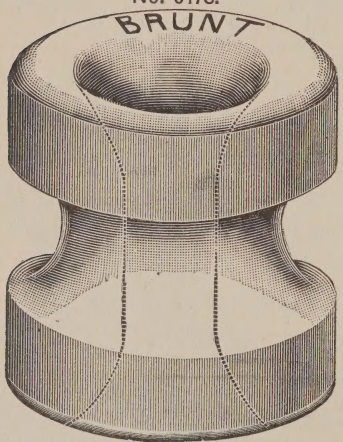
No. 6178.

NO. 30.

Height	$1\frac{11}{16}$ in.
Diameter	$1\frac{15}{16}$ in.
Hole	$\frac{11}{16}$ in.
Groove	¾ in.

Standard package, 1000.

Code Word.	List No.	List Price, per 1000.
Zadigeg	**6178**	**$41.34**



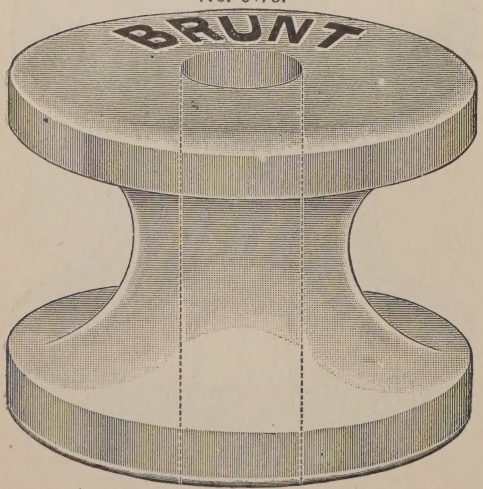
No. 6179.

NO. 36.

Height	1¾ in.
Diameter	1¾ in.
Hole	½ in.
Groove	¾ in.

Standard package, 1800.

Zadigeh	**6179**	**36.00**



No. 6181.

NO. 39.

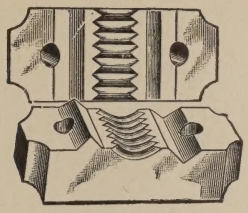
Height	1¾ in.
Diameter	2½ in.
Hole	¾ in.
Groove	1⅜ in.

Standard package, 500.

Zadigel	**6181**	**73.34**

PORCELAIN CLEATS.

ONE WIRE.



STYLE A.

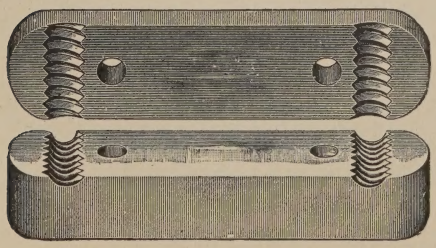
Code Word.	List No.	Mfr. No.	Size R. C. Wire. B. and S.	Size Hole.	List Price. Per 1.000.
Zulik	45992	1	14–6	⅛ to ⅜ inch	$36.68
Zulil	45993	1½	10–2	¾ to 7/16 inch	50.00
Zulim	45994	2	2–0	⅜ to ½ inch	60.00
Zulin	45995	2½	0–000	½ to ⅝ inch	60.00
Zulip	45996	3	000– 200,000 C. M,	9/16 to ¾ inch	95.00
Zulir	45997	3½	200,000– 500,000 C. M.	¾ to 1 inch	120.00
Zulis	45998	4	500,000–1,000,000 C. M.	1 to 1⅜ inch	160.00
Zulit	45999	4¼	800,000–1,250,000 C. M.	1⅜ to 1⅝ inch	320.00
Zuliv	46000	4½	1,000,000–2,000,000 C. M.	1 7/16 to 1 11/16 inch	400.00

REGULAR STYLE.

Zuliw	46001	1	14–6	⅛ to ⅜ inch	26.68
Zulix	46002	1½	10–2	3/16 to 7/16 inch	40.00
Zuliz	46003	2	2–0	⅜ to ½ inch	48.00
Zulo	46004	2½	0-000	½ to ⅝ inch	48.00
Zulob	46005	3	000–2,000,000 C. M.	9/16 to ¾ inch	80.00

Style A cleats are one inch from wire to bottom of cleat.
Regular style are less than one inch.

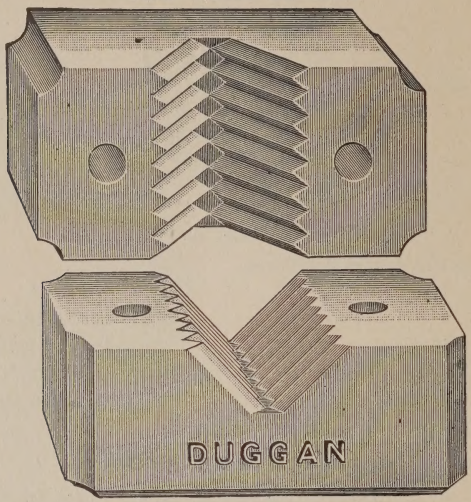
TWO AND THREE WIRE CLEATS.



Zulod	46006	335	Two wire cleats, glazed	26.00
Zulof	46007		Two wire cleats, unglazed	20.00
Zulur	46033	338	Three wire cleats, glazed	26.00
Zulus	46034		Three wire cleats, unglazed	20.00

DUGGAN CLEATS.

ONE WIRE CLEATS.



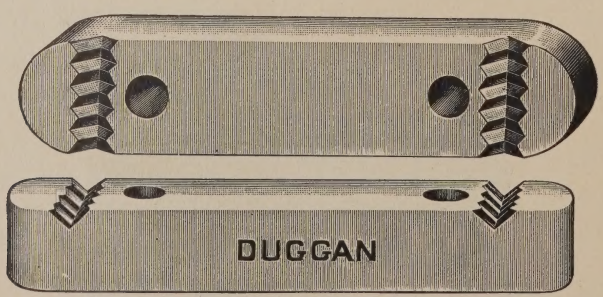
With bottom to hold wire one inch from surface wired over.

Code Word.	List No.	Mfr. No.	Size R. C. Wire, B. and S.	List Price, per 1000.
Zacepu	18442	4A	16-8	$36.68
Zacepub	18443	5A	2-00	60.00
Zacepuc	18444	6A	000- 250000 C. M.	95.00
Zacepud	18445	7A	6-2	60.00
Zacepuf	18446	8	300000- 500000 C. M.	160.00
Zacepug	18447	8½	600000-1000000 C. M.	190.00
Zacepuh	18448	9	1250000-1750000 C. M.	320.00

REGULAR CLEAT.

Zacepuk	18449	4	16-8	26.68
Zacepul	18450	5	2-00	48.00
Zacepum	18451	6	000- 250000 C. M.	80.00
Zacepun	18452	7	6-2	48.00
Zacepup	18453	8	300000- 500000 C. M.	160.00
Zacepur	18454	8½	600000-1000000 C. M.	190.00
Zacepus	18455	9	1250000-1750000 C. M.	320.00

TWO WIRE CLEATS.

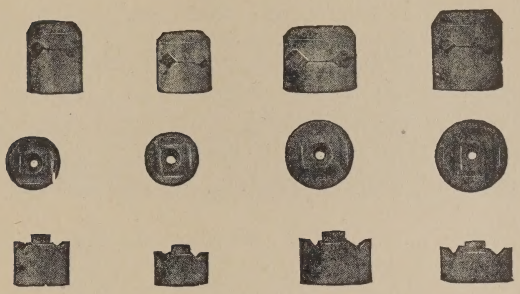


Zaceput	18456	2 Glazed	6-00	53.34
Zacepuv	18457	3 Glazed	Wires to No. 8	34.20
Zacepuw	18458	3 Unglazed	Wires to No. 8	24.00

THREE WIRE CLEATS.

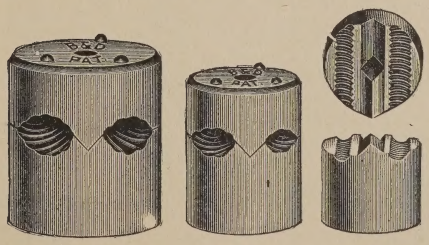
Zacepux	18459	1 Glazed	Wires to No. 8	34.20
Zacepuy	18460	1 Unglazed	Wires to No. 8	24.00

PORCELAIN WIRING KNOBS.



Code Word.	List No.		Std. Pkg.	List Price, per 1000.
Zupeb	9419	Complete knob, for single wire up to 3/8 in. diameter, holding wire 1 in, from wall	500	$32.50
Zuped	9420	Complete knob, for single wire up to 5/8 in. diameter, holding wire 1 in. from wall	500	45.00
Zupef	9352	Complete knob, for single wire up to 3/8 in. diameter, holding wire 9/16 in. from wall	500	28.00
Zupeg	6580	Complete knob, for single wire up to 5/8 in. diameter, holding wire 9/16 in. from wall	500	45.00

B. AND D. WIRING KNOBS.



REGULAR STYLE.

		Mfr. No.	Size R. C. Wire.	
Zuhab	45771	1429	No. 10	$26.68
Zuhad	45772	1430	No. 4	28.50
Zuhaf	45773	1431	No. 0	40.00

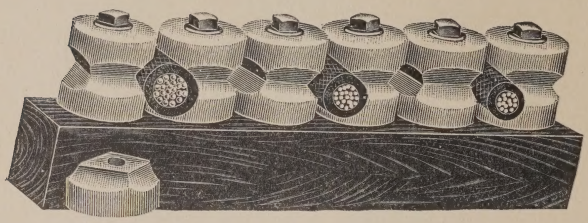
STYLE A.

Zuhag	45774	1729	No. 10	33.34
Zuhah	45775	1730	No. 4	35.00
Zuhak	45776	1731	No. 0	50.00

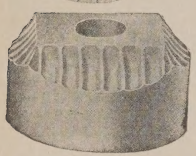
Style A is one inch from wire to bottom of knob.

PORCELAIN SPECIALTIES.

MURDOCK PORCELAIN CABLE INSULATOR.



Holds the cable rigidly, and allows of easy removing. Each insulator consists of a top and bottom piece.



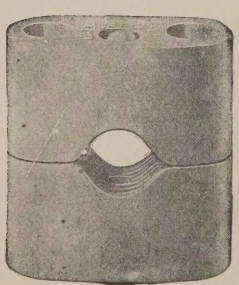
SIZE "A."

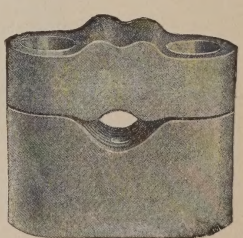
Code Word.	List No.		List Price, per 1000.
Zadabov	26641	300,000 to 1,000,000 C. M. Cable	$75.00

SIZE "B."

Zadabow	26642	00 to 300,000 C. M. Cable	50.00

MURDOCK REVERSIBLE SINGLE WIRE CLEAT.



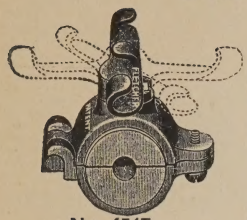


This Cleat is in reality three cleats in one. It holds wires from 5-16 in. to ⅞ in. diameter in its three combinations. Knock out the small rosette in the bottom piece and a screw or tack can be used to hold the bottom independent of the top. With this cleat you are prepared for all emergencies in wiring.

			Per 1000.
Zadabox	26643		80.00

FLETCHER GEM WIRE HOLDER.

(With loops to any angle)



No. 4517.

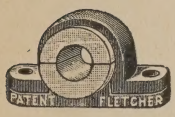
Porcelain Insulation.

Code Word.	List No.			List Price, Each.
Fairy	4517	5/8	in. opening	$ .30
Faith	4518	3/4	in. opening	.30
Fake	4519	7/8	in. opening	.30
Fakir	4520	1	in. opening	.30
Falcon	4521	1 1/8	in. opening	.30

Glass Insulation.

Fall	4522	1/2	in. opening	.28
Fallacious	4523	5/8	in. opening	.33
Fallacy	4524	3/4	in. opening	.33
Fallible	4525	7/8	in. opening	.38
Fallow	4526	1	in. opening	.38

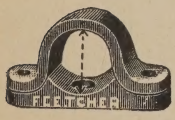
FLETCHER INSULATED CLAMPS.



No. 4527.

				Porc. Ins.	Opal Glass, Ins.
Falsehood	4527	3-16	in. opening	$ .08	
Falsetto	4528	1/4	in. opening	.08	
Falsify	4529	3/8	in. opening	.08	
Falsity	4530	1/2	in. opening	.10	.12
Falter	4531	5/8	in. opening	.18	.17
Fame	4532	3/4	in. opening	.18	.17
Familiar	4533	7/8	in. opening	.18	.17
Family	4534	1	in. opening	.18	.20
Famine	4535	1 1/8	in. opening	.18	
Famish	4536	1 1/4	in. opening	.31	.40
Fan	4537	1 3/8	in. opening	.31	
Fanatic	4538	1 1/2	in. opening	.31	.40
Fanaticism	4539	1 3/4	in. opening	.38	.60
Fancy	4540	2	in. opening	.38	.60
Fandango	4541	2 1/8	in. opening	.50	
Fane	4542	2 1/4	in. opening	.50	
Fang	4543	2 3/8	in. opening	.50	
Fangle	4544	2 1/2	in. opening	.50	

Top and Bottom.



No. 4545.

				List Price, Per 100.
Fantastic	4545	3/4	in. opening	$7.00
Fantasy	4546	7/8	in. opening	7.00
Far	4547	1	in. opening	7.00
Farce	4548	1 1/8	in. opening	8.00
Farcical	4549	1 1/4	in. opening	8.00
Fare	4550	1 3/8	in. opening	9.50
Farewell	4551	1 1/2	in. opening	9.50
Farfetched	4552	1 5/8	in. opening	11.50
Farina	4553	1 3/4	in. opening	11.50
Farm	4554	1 7/8	in. opening	13.00
Farrier	4555	2	in. opening	13.00
Farrow	4556	2 1/8	in. opening	14.50
Farther	4557	2 1/4	in. opening	14.50
Farthest	4558	2 3/8	in. opening	16.00
Farthing	4559	2 1/2	in. opening	16.00

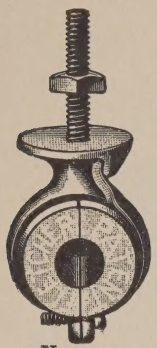
With Gimlet Pointed Screw.

No. 4560.

				List Price, Each. Porc. Ins.	Opal Glass. Ins.
Fascinate	4560	3-16	in. opening	.12	
Fashion	4561	1/4	in. opening	.12	
Fast	4562	3/8	in. opening	.12	
Fastidious	4563	1/2	in. opening	.18	.22
Fat	4564	5/8	in. opening	.24	.26
Fatal	4565	3/4	in. opening	.24	.26
Fatality	4566	7/8	in. opening	.30	.26
Fate	4567	1	in. opening	.30	.26
Father	4568	1 1/8	in. opening	.36	
Fatherland	4569	1 1/4	in. opening	.36	.60
Fathom	4570	1 3/8	in. opening	.36	
Fatigue	4571	1 1/2	in. opening	.36	.60
Fatling	4572	1 3/4	in. opening	.48	.72
Fault	4573	2	in. opening	.48	.72
Faucet	4574	2 1/8	in. opening	.65	
Favor	4575	2 1/4	in. opening	.65	
Favorite	4576	2 3/8	in. opening	.65	
Fawn	4577	2 1/2	in. opening	.65	

Orders should specify whether Glass or Porcelain Insulation is desired.

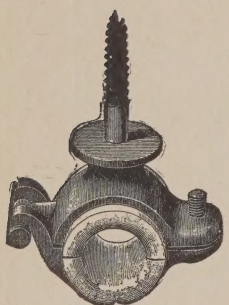
FLETCHER IRON CLAMPS.



No. 4471.

Code Word.	List No.				List Price Each. Porc. Ins.	Opal Glass Ins.
Extension	4471	3/16	inch	opening	$ .12	
Extensive	4472	¼	inch	opening	.12	
Extenuate	4473	⅜	inch	opening	.12	
Exterior	4474	½	inch	opening	.18	.22
External	4475	⅝	inch	opening	.24	.26
Extinguish	4476	¾	inch	opening	.24	.26
Extirpate	4477	⅞	inch	opening	.30	.26
Extortion	4478	1	inch	opening	.30	.26
Extradite	4479	1⅛	inch	opening	.36	
Extraneous	4480	1¼	inch	opening	.36	.60
Extremity	4481	1⅜	inch	opening	.36	
Extricable	4482	1½	inch	opening	.36	.60
Extricate	4483	1¾	inch	opening	.48	.72
Extrinsic	4484	2	inch	opening	.48	.72
Extrude	4485	2⅛	inch	opening	.65	
Exuberance	4486	2¼	inch	opening	.65	
Exuberant	4487	2⅜	inch	opening	.65	
Fable	4488	2½	inch	opening	.65	

GEM WIRE HOLDERS, WITH WOOD SCREW.



No. 4489.

					Per 100.	Per 100.
Fabric	4489	3/16	inch	opening	$12.00	
Fabricate	4490	¼	inch	opening	12.00	
Fabulist	4491	⅜	inch	opening	12.00	
Fabulize	4492	½	inch	opening	18.00	22.00
Fabulous	4493	⅝	inch	opening	24.00	26.00
Face	4494	¾	inch	opening	24.00	26.00
Facet	4495	⅞	inch	opening	30.00	26.00
Facetious	4496	1	inch	opening	30.00	26.00
Facial	4497	1⅛	inch	opening	36.00	
Facile	4498	1¼	inch	opening	36.00	60.00
Facilitate	4499	1⅜	inch	opening	36.00	
Facility	4500	1½	inch	opening	36.00	60.00
Facsimile	4501	1¾	inch	opening	48.00	72.00
Fact	4502	2	inch	opening	48.00	72.00

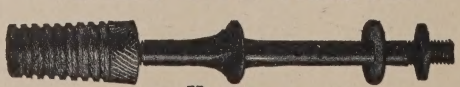
GEM WIRE HOLDERS, WITH BOLT AND NUT.

No. 4503.

Faction	4503	3/16	inch	opening	12.00	
Factious	4504	¼	inch	opening	12.00	
Factor	4505	⅜	inch	opening	12.00	
Factory	4506	½	inch	opening	18.00	22.00
Faculty	4507	⅝	inch	opening	24.00	26.00
Fad	4508	¾	inch	opening	24.00	26.00
Fade	4509	⅞	inch	opening	30.00	26.00
Fag	4510	1	inch	opening	30.00	26.00
Fagot	4511	1⅛	inch	opening	36.00	
Fahrenheit	4512	1¼	inch	opening	36.00	60.00
Fail	4513	1⅜	inch	opening	36.00	
Fain	4514	1½	inch	opening	36.00	60.00
Faint	4515	1¾	inch	opening	48.00	72.00
Fair	4516	2	inch	opening	48.00	72.00

ORDERS SHOULD SPECIFY WHETHER GLASS OR PORCELAIN INSULATION IS DESIRED.

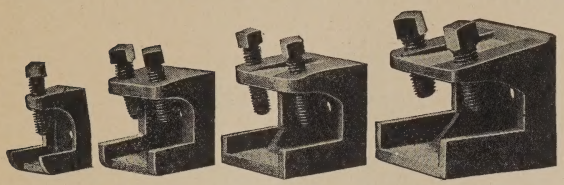
WESTERN UNION STEEL PIN.



No. 6211.

Inglorious	6211	½ inch, per 100	8.00
Ingrateful	6212	⅝ inch, per 100	9.00

UNIVERSAL INSULATOR SUPPORTS.



1 in. 1½ in. 2 in. 2½ in.

FOUR SIZES.

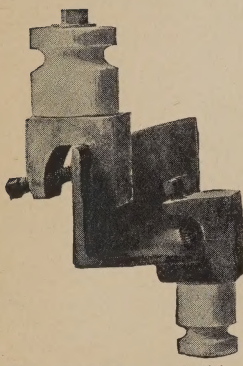
Taking all sizes of porcelain and glass insulators. An important improvement in exposed wiring on steel framework. Universal in application. No more scheming and worry over special rigs for specific conditions—they will go on anywhere. No wood blocking, special straps or hook bolts.

If work is ever changed they are not "scrap"—(as is the case with special forgings and wood blocking). They can be used again. They do not wear out. Made of best malleable iron and will stand rough use without breaking.

The most severe vibration will not loosen them. Cup pointed, hardened set screws hold them secure. Reliable for light or heavy work. Total cost of material less—Total cost of labor less.

It has long been a well recognized fact that the most difficult part of a wiring job in steel frame mill and factory work has been the devising, making and erecting of all manner of special work for securing the insulators, on which the wiring is supported. This work has to be done by the most skilled and experienced man available or worked out by a competent draughtsman. It is expensive work, in any event, and it is seldom that two jobs are done in anything like the same way, each individual having his own method. Lack of a recognized standard for such work is a necessary consequence and lack of standardization means that no progress is made toward economy. All of this special work must be schemed out and completed before the actual wiring can be started.

Universal Insulator Supports supply a complete and rational solution of this problem. They have been designed with a full knowledge of the difficulties met with in actual work—gained by years of experience with old methods. This device is not a raw new thing. Many of the largest and most conservative concerns have adopted it as the standard construction for all their work.



Showing 2 in. and 1½ in. with insulators applies to angle iron.

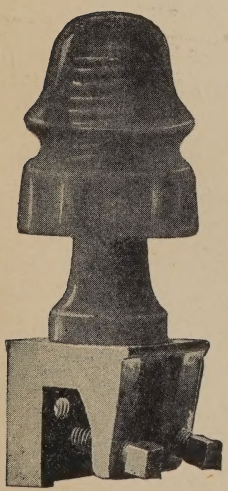
In this matter of standard work we have an important factor entirely aside from the merit of our Universal Insulator Supports. The point that standard means economy needs no lengthy argument or proof, and nowhere is economy more necessary than in wiring work secured to exposed steel framework as it is ordinarily done. Universal Insulator Supports make standard work.

Universal Insulator Supports can be used in any position on the flanges of any known rolled steel structural shape; beams, angles, channels, "Z" bars, round, square and flat bars, gas and water pipes, edges of tanks, plates, etc. This fact makes it possible to avoid all preliminary work mentioned above and all the expense and vexation connected with it.

No woodwork is required. This cuts out an element of danger from fire and avoids the effects of drying out and consequent loosening of supports so common when timbers are used.

No drilling of holes is necessary, with the consequent weakening of the steel structure.

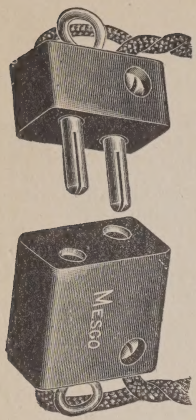
The use of cup pointed hardened set screws and a clamp form of great strength absolutely prevents the supports working loose even under the most severe vibration. The set screws cut into the metal and are securely anchored.



Showing 2½ in. size with D. G. D. P. Glass Insulator Pin No. 7155 or 7156.

Insulator Suports.					Insulator Data.		Machine Screws and Bolts.				
Size, Inches	Std. Pkg.	List Price, including Leather Washers, per 100	Std. No.	Height, Inches	Diam., Inches	Hole, Inches	Grove, Inches	Length, Inches	Diam.	Threads Per In.	Head
1	200	$20.00	5	1¼	1	¼	5-16	1¾	No. 14	20	Flat
1	200	20.00	5½	1 9-16	1	¼	5-16	2	No. 14	20	Flat
1½	100	34.00	10	1¾	1⅝	⅜	⅜	2¼	No. 18	18	Flat
1½	100	34.00	4	1 11-16	1½	⅜	⅜	2¼	No. 18	18	Flat
1½	100	34.00	4½	1⅞	1½	⅜	⅜	2¼	No. 18	18	Flat
2	50	46.00	1	3	2⅛	¾	7-16	3¼	No. 24	16	Flat
2	50	46.00	2	2	2	½	½	2½	No. 24	16	Round
2	50	46.00	3	1¾	2	7-16	7-16	2¼	No. 24	16	Flat
2	50	46.00	3 w. g.	1¾	2	7-16	¾	2¼	No. 24	16	Flat
2	50	46.00	3½	2	2	7-16	7-16	2½	No. 24	16	Flat
2	50	46.00	24	1¾	1⅞	7-16	⅝	2¼	No. 24	16	Round
2½	25	68.00	25	1½	2½	11-16	1 1-16	2	½ in.	13	Sqr.
2½	25	68.00	29	2⅜	2½	½	1⅜	2¾	½ in.	13	Sqr.
2½	25	68.00	34	1⅞	2⅜	⅝	1⅜	2¼	½ in.	13	Sqr.

We do not furnish insulators.



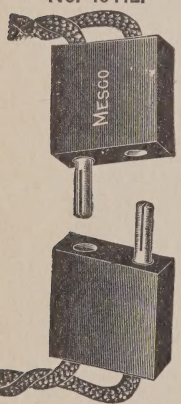
No. 19412.

BATTERY, OR SCENERY CONNECTORS.

MEDIUM SIZE.

This Connector is made to carry 15 amperes and is very convenient for connecting portables, fans, small motors, etc.

Code Word.	List No.		List Price, Each.
Zacezen	19412	Special Connector, medium size, complete..	$1.00

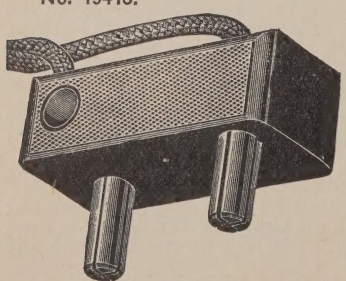


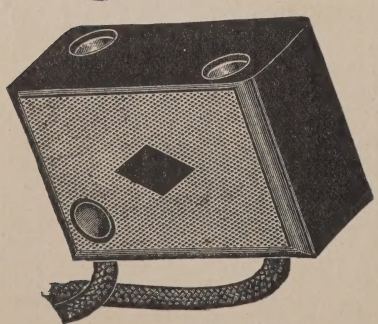
No. 19413.

SMALL SIZE.

This style is very handy for storage batteries or other circuits on which very heavy currents are not used.

Zacezep	19413	Special Connectors, small size, complete...	.70





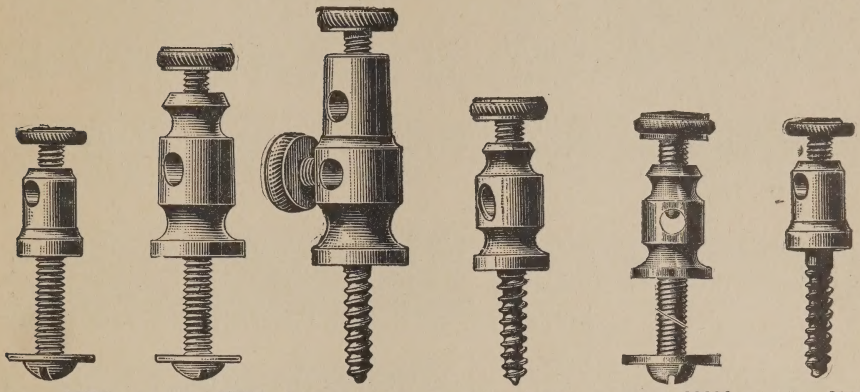
No. 19414.

SPECIAL CONNECTOR.

These Connectors are very convenient for connections which have to be made and unmade frequently and rapidly. Therefore they are well adapted for theatrical work, for storage battery connections in electric vehicles, for trailer light coupling on electric railways, and for large chandeliers in churches and theatres. No. 19414 is made in accordance with the Underwriters' requirements and will carry 25 amperes safely on 125 volt circuits.

Zacezer	19414	Special Connectors, large size	1.50

BINDING POSTS.



List No. 28292. Each, .10. Per Doz., .96

List No. 28293. Each, .14. Per Doz., 1.44.

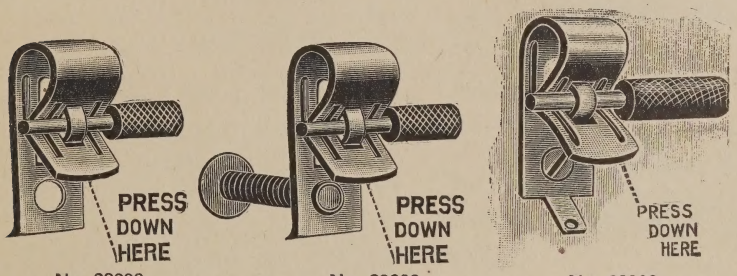
List No. 28294. Each, .20. Per Doz., 2.16.

List No. 28295. Each, .14. Per Doz., 1.44.

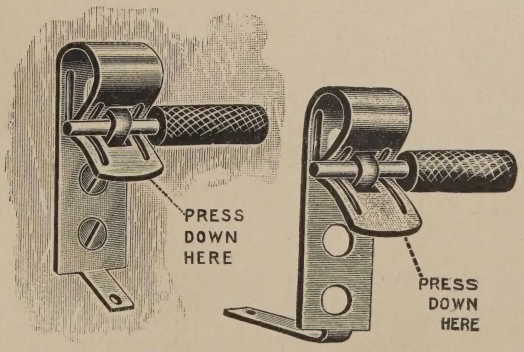
List No. 28296. Each, .10. Per Doz., .96.

List No. 28297. Each, .10. Per Doz., .96.

FAHNESTOCK SPRING BINDING POSTS.



No. 28298. No. 28299. No. 28300.



No. 28301. No. 28302.

List No.		
28298	3	Clearance Screw Hole for an 8-32 screw, will take No. 12 wire and smaller....04
28299	4	Screw Hole, threaded for an 8-32 screw, will take No. 12 wire and smaller.. .04
28300	5	Clearance Screw Hole for an 8-32 screw, will take No. 12 wire and smaller.. .04
28301	8	Clearance Screw Hole for an 8-32 screw, will take No. 12 wire and smaller.. .04
28302	10	Clearance Screw Hole for an 8-32 screw, will take No. 12 wire and smaller.. .04

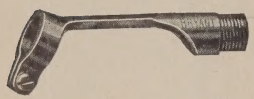
Special prices for larger quantities.

BRYANT SPECIALTIES.

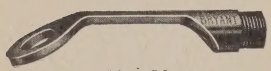
GAS ATTACHMENTS.

No. 239.

No. 1289.



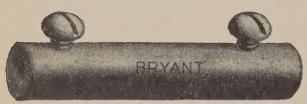
No. 80.



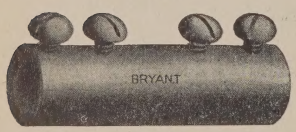
No. 86.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadelon	239	Angle, dull brass.....	500	$0.04
Zadelop	240	Angle, polished brass.....	250	.04¼
Zadelor	1289	Straight, dull brass.....	500	.04
Zadelos	1290	Straight, polished brass....	250	.04¼
Zadelot	80	Polished brass.....	100	.09
Zadelov	86	Polished brass.....	100	.07

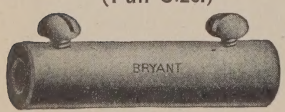
WIRE CONNECTORS.



No. 200.
(Full Size.)



No. 207.
(Full Size.)



No. 310.
(Full Size.)

No. 15100.
(Full Size.)

No. 15102.
(Full Size.)

With Two Set Screws.

Zadelow	200	For Nos. 12 and 14 wire, 1-16-inch hole.....	100	.05
Zadelox	201	For Nos. 10 and 8 wire, 5-32-inch holes.....	100	.06
Zadeloy	202	For Nos. 6 and 7 wire, 3-16-inch hole.....	100	.07
Zadeloz	203	For Nos. 4 and 5 wire, 7-32-inch hole.....	100	.08
Zadelu	204	For Nos. 2 and 3 wire, 9-32-inch hole.....	100	.10
Zadelub	205	For Nos. 0 and 1 wire, 11-32-inch hole.....	50	.12
Zadeluc	206	For 00 wire, ⅜-inch hole.....	50	.14

With Four Set Screws.

Zadelud	207	For Nos. 4 and 5 wire, 7-32-inch hole.....	100	.09
Zadeluf	208	For Nos. 2 and 3 wire, 9-32-inch hole.....	100	.11
Zadelug	209	For Nos. 0 and 1 wire, 11-32-inch hole.....	50	.13
Zadeluh	210	For No. 00 wire, ⅜-inch hole..	50	.15
Zadeluk	211	For No. 000 wire, 7-16-in. hole.	50	.22
Zadelul	212	For No. 0000 wire, ½-in. hole..	50	.28

Brooklyn Connectors.

Zadelum	310	¼-inch hole each end for No. 6 wire	50	.11
Zadelun	311	One end 19-64-inch hole for No. 4 wire, other end ¼-inch hole for No. 6 wire.....	50	.12
Zadelup	312	19-64-inch hole each end for No. 4 wire.....	50	.12

A dividing wall prevents melted solder from running through.

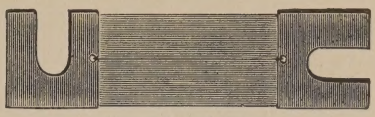
BRASS CLEATS.

For Car Wiring.

			Per 1000.
Zadelur	15118	For 3-16-inch diameter wire... ..	6.50
Zadelus	15100	For ⅜-inch diameter wire..... ..	8.00
Zadelut	15103	For ½-inch diameter wire..... ..	10.00
Zadeluv	15108	For 11-16-inch diameter wire.. ..	15.00
Zadeluw	15102	Corner Cleat, for ⅜-inch diameter wire..... ..	7.50
Zadelux	15104	Corner Cleat, for ½-inch diameter wire..... ..	8.00
Zadeluy	15116	Corner Cleat, for 11-16-inch diameter wire..... ..	12.50

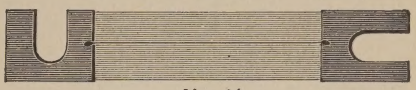
AMERICAN MICA FUSES.

No. 19.



No. 21.

No. 8.



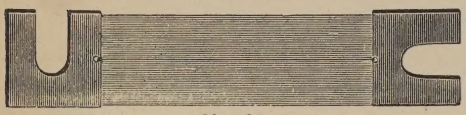
No. 11.

No. 22.

No. 137.

All Fuses packed 50 in a box.

When ordering always specify amperage wanted, and give style number under cut.

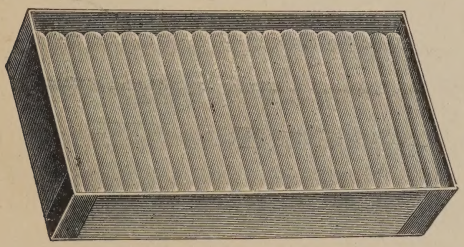


No. 25.

Code Word.	List No.		List Price, per 100.
Zabucut	11683	Copper Terminals	$1.25
Zabucuv	11684	Foil Terminals	1.00

AMERICAN PAPER SLEEVES.

Used for the insulation of cables. Packed 100 per box. Standard length three inches. Furnished in any length and diameter desired. Hand made.



			Per 1,000.
Zabucuw	11685	3 inch long	.75
Zabucux	11686	18 inch long	3.75

AMERICAN JOINTS FOR COPPER AND IRON WIRE.

COMBINATION JOINTS.

Both Steel and Copper.

14 x 18
12 x 14
10 x 14
10 x 16
10 x 18

SPLIT JOINTS.

10 x 12
12 x 16
14 x 16
14 x 18
12 x 18

Prices quoted on application.

DOSSERT SOLDERLESS WIRE AND CABLE CONNECTORS.

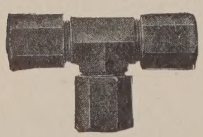
This Connector was devised to overcome the disagreeable features of splicing wires and cables, more especially in the larger sizes, making a joint which would be at the same time electrically and mechanically perfect, without the use of solder.

Type "A."
Fig. 1.

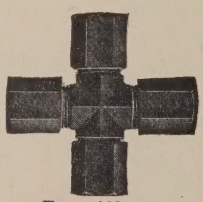
Type "B."
Fig. 2.

Type "C."
Fig. 3.

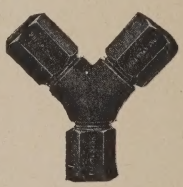
Type "A" Connectors are for solid and stranded wires or cables, and are composed of one nipple, two split double cone sleeves, and two compression nuts. Type "B" is for stranded cables only and is used where great tensile strength is required. Type "B" is composed of two compression nuts, two outside and two inside rings, and one nipple. The "hump" as shown in Fig. 2, formed by the outside and inside rings, insures great tensile strength. Type "C" can be either made "A" or "B" style. This is used on high tension work.



Three-Way
Fig. 4.



Four-Way.
Fig. 5.

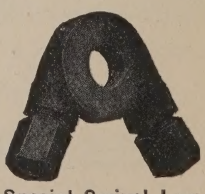


"Y" Connector.
Fig. 6.

The Three-Way, Four-Way and "Y" Connectors, as shown above, are made in either "A" or "B" style, to accommodate any size of cable or any combination of sizes.

Terminal Lug.
Fig. 7.

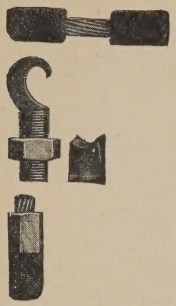
Special Angle Lug.
Fig. 8.



Special Swivel Lug.
Fig. 9.

The above cuts illustrate the Terminal Lug, Special Angle Lug, and special Switchboard Lug. These are generally made in Type "A," but can be secured in "B" if desired. The special swivel Lug allows cables to be brought to the board from any two directions.

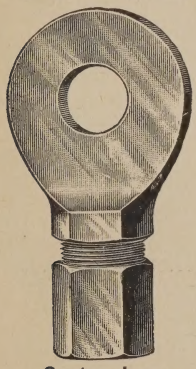
DOSSERT SOLDERLESS WIRE AND CABLE CONNECTORS.



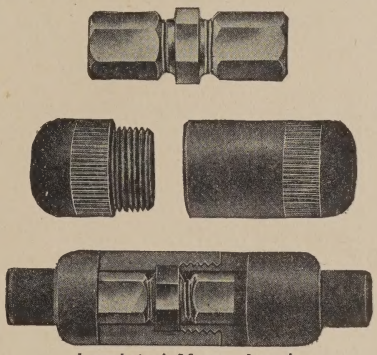
Cable Tap Detail.
Fig. 10.

Cable Tap Assembly.
FIG. 11.

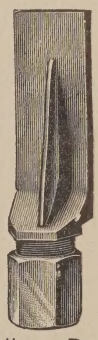
These Connectors will be furnished to tap from any size main to any size branch to suit requirements of our customers. The branch will be constructed to accommodate either "A" or "B." The ease of splicing in this way appeals to every electrical man.



Center Lug.
Fig. 12.



Insulated Motor Lead.
Fig. 13.



Railway Bond.
Fig. 14.

Fig. 12 is the Dossert Center, or Back Lug, now used extensively in switchboard work, making a neat and quick connection. Fig. 13 and Fig. 14 embody all requirements of their respective lines, in most compact and neat form.

PRICES OF TYPES "A" AND "B" CONNECTORS.

Code Word.	List No.	Size of Cable.	2-Way.	3-Way Cable Tap Y	4-Way	Standard Lug.
Zacixez	24360	14 to 4	$0.40	$0.60	$0.80	$0.30
Zacixi	24361	3 to 1	.50	.75	1.00	.38
Zacixib	24362	0	.60	.90	1.20	.45
Zacixic	24363	00	.74	1.11	1.48	.56
Zacixid	24364	000	.90	1.35	1.80	.68
Zacixif	24365	0000	1.10	1.65	2.20	.83
Zacixig	24366	250000	1.30	1.95	2.60	.98
Zacixih	24367	300000	1.52	2.28	3.04	1.14
Zacixik	24368	350000	1.74	2.61	3.48	1.31
Zacixil	24369	400000	2.00	3.00	4.00	1.50
Zacixim	24370	500000	2.60	3.90	5.20	1.95
Zacixin	24371	600000	3.18	4.77	6.36	2.39
Zacixip	24372	700000	3.68	5.52	7.36	2.76
Zacixir	24373	800000	4.16	6.22	8.32	3.11
Zacixis	24374	900000	4.64	6.96	9.28	3.48
Zacixit	24375	1000000	5.00	7.50	10.00	3.75

We can furnish Connectors in intermediate sizes from 400,000 C. M. to 2,000,000 C. M. Prices on application.

WIRE AND CABLES.

OFFICE CABLES.

Our Office Cables will be found very desirable for all interior wiring, for which they are especially designed.

They are composed of No. 18 B. & S. Gauge copper wire, thoroughly insulated, compactly cabled and braided in any desired color or combination of colors, and finished with our patent compound.

Code Word.	List No.			Approximate Number of Feet per Pound of Office Cables, No.18 Conductor.
Zutan	46418	2	Conductors	60
Zutap	46419	4	"	26
Zutar	46420	6	"	20
Zutas	46421	8	"	16
Zutat	46422	10	"	13
Zutav	45423	12	"	11
Zutaw	46424	14	"	10
Zutax	46425	16	"	9
Zutaz	46426	18	"	8
Zute	46427	20	"	7
Zuteb	46428	22	Conductors	6
Zuted	46429	24	"	5½
Zutef	46430	26	"	5
Zuteg	46431	30	"	4½
Zuteh	46432	34	"	4
Zutek	46433	38	"	3¾
Zutel	46434	40	"	3½
Zutem	46435	46	"	3
Zuten	46436	50	"	2¾
Zutep	46437	100	"	1½

Paraffined coverings always furnished unless otherwise ordered. For weatherproof covering add 25 per cent. to above weights.

PRICES QUOTED ON APPLICATION.

ELEVATOR ANNUNCIATOR CABLES.

This type of cable is designed for connecting the movable elevator car with the signal buttons upon the different floors and is constructed to secure the greatest amount of strength and flexibility.

				List Price, Per ft.
Zuter	46438	2	Conductors	.16
Zutes	46439	3	Conductors	.16
Zutet	46440	4	Conductors	.16
Zutev	46441	5	Conductors	.20
Zutew	46442	6	Conductors	.24
Zutex	46443	7	Conductors	.28
Zutez	46444	8	Conductors	.32
Zuti	46445	9	Conductors	.36
Zutib	46446	10	Conductors	.40
Zutid	46447	11	Conductors	.44
Zutif	46448	12	Conductors	.48

ELECTRIC LIGHT ELEVATOR CABLE.

For connecting lights in elevator car. Composed of No. 16 Stranded conductor, rubber covered, and cabled to produce the greatest possible amount of flexibility.

				Per ft.
Zutig	46449	2	Conductors	.16
Zutih	46450	4	Conductors	.32

GAS FIXTURE WIRE.

On ½ lb. Spools.

STYLE A. Triple wound and paraffined.

	Mfr. No.		List Price, Per lb.
Zutik	46451	No. 22, in yellow only	$1.60
Zutil	46452	No. 24, in yellow, brown and white	1.80

STYLE B. 4-wind, inside silk.

Made with quadruple winding, the inner of silk and the three outer layers of cotton.

Zutim	46453	No. 22, in yellow only	2.00
Zutin	46454	No. 24, in yellow, brown and white	2.20

STYLE C. 3-wind, outside silk.

Made with three windings of cotton, which is then soaked with fireproof preparation and wound with silk.

Zutip	46455	No. 22, in gold only	2.00
Zutir	46456	No. 24, in gold and white	2.20

SABIN CABLE.

FOR AERIAL USE, OR FOR BUILDINGS WHERE EXPOSED TO DAMPNESS.

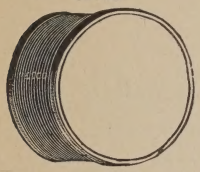
These Cables are usually made of No. 18 B. S. gauge wire, insulated with two compact winds of cotton saturated with our Patent Compound. After cabling, a wind of cotton is applied and the cable served with a double thickness of rubber tape. A heavy braid saturated with weatherproof compound serves as a further protection. This cable was designed to meet a demand for an outside cable of low cost, and while it is used successfully in some classes of work, we cannot recommend it for telephone or circuits of a delicate or exacting nature.

Zutis	46457	Price, per pound, all sizes	1.00

WIRES AND CABLES

ANNUNCIATOR WIRE.

No. 18 Annunciator Wire.



No. 6636.

Yellow. Red. Red and white. Black. Blue. Blue and white, Brown. White. Brown and white. Blue and red.

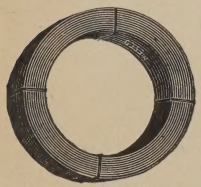
Code Word.	List No.	Size. B. & S. Gauge.	List Price. Plain Copper.	Per Pound. Tinned Copper.
Labial	6634	12 to 15	$0.48	$0.50
Labor	6635	16 and 17	.50	.52
Laboratory	6636	18 and 19	.52	.54
Laborious	6637	20 and 21	.55	.56
Labyrinth	6638	22 and 23	.58	.60

Table Approximate Lengths.

No. 16	109	feet per pound.
No. 18	170	" " "
No. 19	205	" " "
No. 20	238	" " "
No. 22	350	" " "

OFFICE WIRE.

Office Wire.



No. 6639.

Insulation consisting of a firm cotton wrap upon the wire and a braid of any standard color saturated with compound and smoothly finished.

Lac	6639	Nos. 12 to 15	.48
Lace	6640	" 16 to 18	.52
Lacerate	6641	" 19 and 20	.55
Lachrymal	6642	" 21 and 22	.60

DAMP PROOF OFFICE WIRE.

No. 6643.

Insulation consisting of two cotton winds in reverse directions saturated with our moisture proof compound, and an outer braid of any standard color finished in beeswax compound.

Red. Red and white. Blue. Blue and white.

Sizes 16 and 18 in red and white are also carried in a duplex wire, being two separately insulated conductors under one braid.

		Size B & S Gauge.	Approx. pounds per 1000 ft.	No. Coils.	Weight each.	No. spools.	Weight each.	
Lachrymose	6643	12	34.	8	25	20	10	.48
Lack	6644	14	24.	12	17	20	10	.48
Lackaday	6645	16	13.50	12	17	20	10	.52
Lackey	6646	18	10.	12	17	20	10	.52
Laconic	6647	20	8.	12	17	20	10	.55

In cases containing approximately 200 pounds.

Weather-Proof and Slow-Burning Weather-Proof wires in all sizes and kinds carried in stock.

Prices on application.

RUBBER COVERED WIRE.

NATIONAL ELECTRICAL CODE STANDARD.

SOLID.

Price per 1000 Feet. Single Braid.

BARS.

Size B. & S.	20c	21c	22c	23c	24c	25c	26c	27c	28c	29c	30c ..	Add for Double Braid.
0000	$505.00	$519.00	$532.00	$545.00	$559.00	$572.00	$585.00	$599.00	$612.00	$625.00	$639.00	*....
000	418.00	429.00	440.00	450.00	461.00	471.00	482.00	493.00	503.00	514.00	524.00	*....
00	345.00	354.00	362.00	371.00	379.00	387.00	396.00	404.00	413.00	421.00	429.00	*....
0	251.00	258.00	264.00	271.00	277.00	283.00	290.00	296.00	303.00	309.00	315.00	*....
1	198.00	203.00	209.00	214.00	219.00	224.00	229.00	234.00	239.00	244.00	249.00	$17.00
2	150.00	154.00	158.00	163.00	167.00	171.00	175.00	179.00	183.00	187.00	191.00	13.00
3	123.00	126.50	130.00	133.00	136.00	139.00	142.00	146.00	149.00	152.00	155.00	12.00
4	101.00	103.50	106.00	108.60	111.00	113.60	116.20	118.60	121.20	123.70	126.20	11.00
5	85.40	87.40	89.40	91.40	93.40	95.40	97.40	99.40	101.40	103.40	105.40	10.00
6	71.60	73.20	74.80	76.30	77.90	79.50	81.10	82.70	84.20	85.80	87.40	9.00
8	45.60	46.60	47.60	48.60	49.60	50.60	51.60	52.60	53.60	54.60	55.60	8.00
9	38.80	39.60	40.40	41.20	42.00	42.70	43.50	44.30	45.10	45.80	46.60	7.50
10	33.00	33.70	34.30	34.90	35.60	36.20	36.80	37.50	38.10	38.80	39.40	7.00
12	24.40	24.80	25.20	25.60	26.00	26.40	26.80	27.20	27.60	28.00	28.40	6.00
14	18.80	19.10	19.30	19.50	19.80	20.00	20.30	20.50	20.80	21.00	21.30	5.00

*No extra.

STRANDED.

0000	505.00	519.00	532.00	545.00	559.00	572.00	585.00	599.00	612.00	625.00	639.00	*....
000	418.00	429.00	440.00	450.00	461.00	471.00	482.00	493.00	503.00	514.00	524.00	*....
00	345.00	354.00	362.00	371.00	379.00	387.00	396.00	404.00	413.00	421.00	429.00	*....
0	287.00	294.00	301.00	307.00	314.00	321.00	327.00	334.00	341.00	347.00	354.00	*....
1	223.00	229.00	234.00	239.00	244.00	250.00	255.00	260.00	265.00	271.00	276.00	17.00
2	168.00	173.00	177.00	181.00	185.00	189.00	194.00	198.00	202.00	206.00	210.00	13.00
3	139.00	143.00	146.00	149.00	153.00	156.00	159.00	162.00	166.00	169.00	172.00	12.00
4	117.30	119.90	122.60	125.30	127.80	130.40	133.00	135.70	138.30	140.90	143.50	11.00
5	98.40	100.50	102.60	104.70	106.70	108.80	110.90	113.00	115.10	117.10	119.20	10.00
6	84.40	86.10	87.80	89.50	91.10	92.80	94.40	96.20	97.90	99.50	101.20	9.00
8	54.60	55.60	56.70	57.70	58.80	59.80	60.90	61.90	62.90	64.00	65.00	8.00
9	46.40	47.20	48.00	48.90	49.70	50.50	51.40	52.10	53.00	53.80	54.60	7.50
10	39.30	40.00	40.60	41.30	41.90	42.60	43.30	43.90	44.60	45.30	45.90	7.00
12	29.80	30.20	30.60	31.10	31.50	31.90	32.30	32.80	33.20	33.60	34.00	6.00
14	23.00	23.30	23.50	23.80	24.00	24.30	24.60	24.80	25.00	25.40	25.60	5.00

*No extra.

A tape and braid takes the same price as double braid.

A tape and two braids takes the same price as triple braid.

Wires No. 0 and larger, or having 3/32 inch or thicker insulation, are finished with a tape and a braid; all others are finished with a braid only.

DUPLEX RUBBER COVERED WIRE.

SOLID.

White or Black Core.

No. B. & S.	20c	21c	22c	23c	24c	25c	26c	27c	28c	29c	30c
8.....	106.20	108.20	110.20	112.20	114.20	116.20	118.20	120.20	122.20	124.20	126.20
10.....	78.80	80.20	81.40	82.60	84.00	85.20	86.40	87.80	89.00	90.40	91.60
12.....	59.30	60.10	60.90	61.70	62.50	63.30	64.10	64.90	65.70	66.50	67.30
14.....	46.10	46.70	47.10	47.50	48.10	48.50	49.10	49.50	50.10	50.50	51.10

FIXTURE WIRE.

SOLID.

Light Insulation.

14.....	15.80	16.10	16.30	16.50	16.80	17.00	17.30	17.50	17.80	18.00	18.30
16.....	13.30	13.50	13.60	13.80	13.90	14.10	14.30	14.40	14.60	14.70	14.90
18.....	10.50	10.60	10.70	10.80	10.90	11.00	11.10	11.20	11.30	11.40	11.50
19.....	9.90	10.00	10.10	10.10	10.20	10.30	10.40	10.50	10.50	10.60	10.70
20.....	9.30	9.40	9.40	9.50	9.60	9.60	9.70	9.70	9.80	9.90	9.90
22.....	8.20	8.30	8.30	8.30	8.40	8.40	8.40	8.50	8.50	8.50	8.60

RUBBER COVERED WIRE.

NATIONAL ELECTRICAL CODE STANDARD.

RUBBER COVERED STRANDS.

WHITE OR BLACK CORE.

Dollars per 1000 Feet.

	Bars.											Add for Each Ex. Braid.
C. M.	20c	21c	22c	23c	24c	25c	26c	27c	28c	29c	30c	
2,000,000	3,974.	4,100.	4,226.	4,352.	4,478.	4,604.	4,730.	4,856.	4,982.	5,108.	5,234.	69.
1,750,000	3,505.	3,615.	3,726.	3,836.	3,946.	4,056.	4,167.	4,277.	4,387.	4,427.	4,608.	66.
1,500,000	3,040.	3,135.	3,229.	3,324.	3,418.	3,513.	3,607.	3,702.	3,796.	3,891.	3,985.	62.
1,250,000	2,594.	2,673.	2,752.	2,830.	2,909.	2,938.	3,067.	3,145.	3,224.	3,303.	3,382.	58.
1,000,000	2,080.	2,143.	2,206.	2,269.	2,332.	2,395.	2,458.	2,521.	2,584.	2,647.	2,710.	52.
950,000	1,986.	2,046.	2,106.	2,166.	2,225.	2,285.	2,345.	2,405.	2,465.	2,525.	2,585.	51.
900,000	1,889.	1,946.	2,002.	2,059.	2,116.	2,173.	2,229.	2,286.	2,343.	2,399.	2,456.	50.
850,000	1,796.	1,850.	1,903.	1,957.	2,010.	2,064.	2,117.	2,171.	2,224.	2,278.	2,332.	49.
800,000	1,699.	1,749.	1,800.	1,850.	1,901.	1,951.	2,001.	2,052.	2,102.	2,153.	2,203.	48.
750,000	1,602.	1,649.	1,697.	1,744.	1,791.	1,838.	1,886.	1,933.	1,980.	2,027.	2,075.	47.
700,000	1,507.	1,551.	1,595.	1,639.	1,683.	1,728.	1,772.	1,816.	1,860.	1,904.	1,948.	46.
650,000	1,411.	1,452.	1,493.	1,534.	1,575.	1,616.	1,657.	1,698.	1,739.	1,780.	1,821.	45.
600,000	1,318.	1,356.	1,394.	1,431.	1,469.	1,507.	1,545.	1,583.	1,620.	1,658.	1,696.	44.
550,000	1,223.	1,258.	1,292.	1,327.	1,362.	1,396.	1,431.	1,466.	1,500.	1,535.	1,570.	43.
500,000	1,102.	1,134.	1,165.	1,197.	1,228.	1,260.	1,291.	1,323.	1,354.	1,386.	1,417.	40.
450,000	1,002.	1,030.	1,059.	1,087.	1,115.	1,144.	1,172.	1,201.	1,229.	1,257.	1,286.	38.
400,000	903.	928.	953.	979.	1,004.	1,029.	1,054.	1,079.	1,105.	1,130.	1,155.	36.
350,000	804.	826.	848.	870.	892.	914.	936.	958.	980.	1,003.	1,025.	34.
300,000	705.	724.	743.	762.	781.	800.	818.	837.	856.	875.	894.	32.
250,000	606.	622.	638.	653.	669.	685.	701.	716.	732.	748.	764.	30.
225,000	559.	573.	587.	601.	616.	630.	644.	658.	672.	686.	701.	28.

A tape and braid takes the same price as double braid.

A tape and two braids takes the same price as triple braid.

Any strand made of finer wires than given in the following table is considered flexible, and the list price of ordinary strand is increased by the following additions:

Size Strand C. M.	Size B. & S.	Addition.	Size Strand.	Size B. & S.	Addition.
2,000,000	12	$271.00	0000	16	$40.00
1,750,000	12	240.00	000	16	38.00
1,500,000	12	210.00	00	17	35.00
1,250,000	12	181.00	0	17	30.00
1,000,000	13	145.00	1	17	23.00
950,000	13	139.00	2	17	18.00
900,000	13	132.00	3	18	15.00
850,000	13	126.00	4	18	12.30
800,000	13	120.00	5	18	10.50
750,000	13	113.00	6	19	9.20
700,000	14	107.00	8	19	5.90
650,000	14	100.00	9	20	5.10
600,000	14	94.00	10	21	4.50
550,000	14	88.00	12	23	3.50
500,000	14	79.00	14	25	2.70
450,000	15	72.00	16	30	2.40
400,000	15	65.00	18	30	2.00
350,000	15	58.00	19	30	1.90
300,000	16	52.00	20	30	1.60
250,000	16	45.00	22	30	1.50
225,000	16	42.00			

RUBBER COVERED WIRE.

BRAID TABLE—RUBBER-COVERED WIRE.

Add the Following per 1000 Feet to List Prices. Code Insulation, for Each Extra Braid.

C. M.	Advance.	C. M.	Advance.	No. B. & S.	Advance.	No. B. & S.	Advance.
2,000,000	$69.00	600,000	$44.00	0000	$25.00	10	$7.00
1,750,000	66.00	550,000	43.00	000	23.00	12	6.00
1,500,000	62.00	500,000	40.00	00	21.00	14	5.00
1,250,000	58.00	450,000	38.00	0	19.00	16	4.00
1,000,000	52.00	400,000	36.00	1	17.00	18	3.80
950,000	51.00	350,000	34.00	2	13.00	19	3.60
900,000	50.00	300,000	32.00	3	12.00	20	3.40
850,000	49.00	250,000	30.00	4	11.00	22	3.20
800,000	48.00	225,000	28.00	5	10.00	..	....
750,000	47.00	.....	....	6	9.00	..	....
700,000	46.00	.....	....	8	8.00	..	....
650,000	45.00	.....	....	9	7.50	..	....

TELEPHONE WIRES.

TWISTED PAIRS.

Dollars per 1000 Feet.

B. & S.	Finish.	Over Rubber.	24	25	26
14	Braided	11-64 inch	44.00	44.40	45.00
14	Braided	5-32 inch	39.80	40.20	40.80
16	Braided	5-32 inch	38.20	38.60	39.00
16	Braided	9-64 inch	33.60	34.00	34.40
16	Braided	4-32 inch	29.00	29.40	29.80
18	Braided	4-32 inch	28.20	28.40	28.60
18	Braided	7-64 inch	23.80	24.00	24.20
19	Braided	7-64 inch	23.40	23.60	23.80
19	Braided	3-32 inch	19.00	19.20	19.40
20 or 22	Braided	3-32 inch	18.80	18.80	19.00
19	Plain	3-32 inch	16.80	17.00	17.20
20 or 22	Plain	3-32 inch	16.00	16.60	16.80

No deductions shall be made for lighter insulation than those listed.

Single Conductors carry one-half the price of Twisted Pairs.

Triple Conductors carry one and one-half times the price of Twisted Pairs.

Four Conductors carry twice the price of Twisted Pairs.

Upon change of Bar Base, the above prices shall be varied per conductor in accordance with changes for copper as given in official list.

SPECIAL RUBBER INSULATED CABLES.

Prices, per 1000 Feet.

BREWERY CORD.

Size B. & S.	23c.	24c.	25c.	26c.	27c.	28c.	29c.	30c.
10	$95.00	$96.40	$98.00	$99.60	$101.00	$102.40	$104.20	$105.60
12	71.50	72.50	73.40	74.30	75.40	76.40	77.30	78.20
14	54.70	55.20	55.90	56.60	57.00	57.50	58.40	58.90
16	45.50	46.00	46.20	46.70	47.20	47.40	47.80	48.10
18	37.50	37.70	38.00	38.20	38.40	38.60	38.90	39.10

CANVASITE CORD.

10	120.80	122.30	124.00	125.80	127.30	129.00	130.80	132.30
12	92.80	93.75	94.80	95.80	97.00	98.00	99.00	100.00
14	72.00	72.50	73.30	74.00	74.50	75.00	76.00	76.50
16	59.50	60.00	60.30	60.80	61.30	61.50	62.00	62.30
18	50.30	50.80	50.80	51.00	51.30	51.50	51.75	52.00

PACKING HOUSE CORD.

10	138.30	139.80	141.50	143.25	144.80	146.50	148.30	149.80
12	107.80	108.80	109.80	110.80	112.00	113.00	114.00	115.00
14	84.50	85.00	85.80	86.50	87.00	87.50	88.50	89.00
16	69.50	70.50	70.30	70.80	71.30	71.50	72.00	72.30
18	59.80	60.30	60.30	60.50	60.80	61.00	61.30	61.50

DECK CABLES.

10	178.70	180.90	183.50	186.10	188.30	190.90	193.50	195.70
12	137.30	138.80	140.20	141.70	143.60	145.00	146.50	148.00
14	106.60	107.30	108.40	109.50	110.30	111.00	112.50	113.20
16	88.10	89.50	89.20	89.90	90.70	91.00	91.80	92.10
18	74.40	75.10	75.10	75.50	75.90	76.20	76.60	77.00

THEATRE OR STAGE CABLES.

2	517.50	527.50	537.50	550.00	560.00	570.00	580.00	590.00
3	432.50	442.50	450.00	457.50	465.00	475.00	482.50	490.00
4	368.30	374.50	381.00	392.50	394.30	400.80	407.30	413.80
5	311.80	316.80	322.00	327.30	332.50	337.80	342.80	348.00
6	268.80	272.80	277.00	281.00	285.50	289.80	293.80	303.00
8	184.30	187.00	189.50	192.30	194.80	197.30	200.00	202.50
10	138.30	139.80	141.50	143.30	144.80	146.50	148.30	149.80
12	107.80	108.80	109.80	110.80	112.00	113.00	114.00	115.00
14	84.50	85.00	85.80	86.50	87.00	87.50	88.50	89.00

BORDER LIGHT CABLES.

12-3 Cond.	161.60	163.10	164.60	166.10	168.00	169.50	171.00	172.50
12-4 Cond.	215.50	217.50	219.50	221.50	224.00	226.00	228.00	230.00
12-5 Cond.	269.40	271.90	274.40	276.90	280.00	282.50	285.00	287.50
12-6 Cond.	323.30	326.30	329.30	332.30	336.00	339.00	342.00	345.00
14-3 Cond.	126.80	127.50	128.60	129.80	130.50	130.80	132.80	133.50
14-4 Cond.	169.00	170.00	171.50	173.00	174.00	175.00	177.00	178.00
14-5 Cond.	211.30	212.50	214.40	216.30	217.50	218.80	221.30	222.50
14-6 Cond.	253.50	265.00	257.30	259.50	261.00	262.50	265.50	267.00

ELEVATOR LIGHTING CABLES.

14	161.30	162.40	164.10	165.80	166.90	168.00	170.20	171.40

DESCRIPTION:—Special Rubber Insulated Cables.

Brewery Cord consists of two conductors stranded, rubber insulated, braided and the two twisted together.

Canvasite Cord consists of two conductors stranded, rubber insulated, braided, twisted together and finished with a weatherproof braid.

Packing House Cord consists of two conductors stranded, rubber insulated, twisted together with jute filler and finished with a belt of rubber and a weatherproof braid.

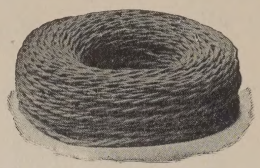
Deck Cable consists of two conductors stranded, rubber insulated, braided, twisted together with jute filler and finished with a belt of rubber and a weatherproof braid.

Theatre or Stage Cable consists of two conductors flexible cotton wrapped, rubber insulated, braided, twisted together with jute filler, and finished with two weatherproof braids.

Border Light Cable is exactly the same as Stage or Theatre Cable, but consists of more than two conductors.

Elevator Lighting Cable consists of two conductors B. & S. rubber insulated, laid up with two steel supporting strands, cushioned with cotton. For short cables the steel strands are omitted.

INCANDESCENT LAMP CORD.



List Price, per 1000 Feet.

Code Word.	List No.	Size B. & S.	15 Cent Bars. Silk Covered.	15 Cent Bars. Cotton Covered.	16 Cent Bars. Silk Covered.	16 Cent Bars. Cotton Covered.	17 Cent Bars. Silk Covered.	17 Cent Bars. Cotton Covered.
Zabohib	22202	10	$120.00	$95.00	$122.60	$97.60	$125.20	$100.20
Zabohic	22203	12	80.00	62.00	81.60	63.60	83.40	65.40
Zabohid	22204	14	57.00	40.00	58.00	41.00	59.00	42.00
Zabohif	22205	16	41.00	27.00	41.80	27.80	42.40	28.40
Zabohig	22206	18	34.00	21.00	34.40	21.40	34.80	21.80
Zabohih	22207	20	29.00	18.00	29.40	18.40	29.60	18.60
Zabohik	22208	22	26.00	15.00	26.20	15.20	26.40	15.40

Code Word.	List No.	Size B. & S.	18 Cent Bars. Silk Covered.	18 Cent Bars. Cotton Covered.	19 Cent Bars. Silk Covered.	19 Cent Bars. Cotton Covered.	20 Cent Bars. Silk Covered.	20 Cent Bars. Cotton Covered.
Zabohib	22202	10	128.00	103.00	130.60	105.60	133.20	108.20
Zabohic	22203	12	85.00	67.00	86.80	68.80	88.40	70.40
Zabohid	22204	14	60.20	43.20	61.00	44.00	62.20	45.20
Zabohif	22205	16	43.00	29.00	43.60	29.60	44.20	30.20
Zabohig	22206	18	35.20	22.20	35.60	22.60	36.00	23.00
Zabohih	22207	20	29.80	18.80	30.00	19.00	30.40	19.40
Zabohik	22208	22	26.60	15.60	26.80	15.80	26.80	15.80

Code Word.	List No.	Size B. & S.	21 Cent Bars. Silk Covered.	21 Cent Bars. Cotton Covered.	22 Cent Bars. Silk Covered.	22 Cent Bars. Cotton Covered.	23 Cent Bars. Silk Covered.	23 Cent Bars. Cotton Covered.
Zabohib	22202	10	135.80	110.80	138.40	113.40	176.50	145.30
Zabohic	22203	12	90.00	72.00	91.80	73.80	116.80	94.30
Zabohid	22204	14	63.20	46.20	64.20	47.20	81.80	60.50
Zabohif	22205	16	45.00	31.00	45.60	31.60	57.80	40.30
Zabohig	22206	18	36.40	23.40	36.80	23.80	46.50	30.30
Zabohih	22207	20	30.80	19.80	31.00	20.00	39.00	25.30
Zabohik	22208	22	27.00	16.00	27.20	16.20	34.30	20.50

Code Word.	List No.	Size B. & S.	24 Ct. Bars. Silk Cov.	24 Ct. Bars. Cotton Cov.	25 Ct. Bars. Silk Cov.	25 Ct. Bars. Cotton Cov.	26 Ct. Bars. Silk Cov.	26 Ct. Bars. Cotton Cov.	27 Ct. Bars. Silk Cov.	27 Ct. Bars. Cotton Cov.	28 Ct. Bars. Silk Cov.	28 Ct. Bars. Cotton Cov.
Zabohib	22202	10	179.80	148.50	183.00	151.80	186.30	155.00	189.50	158.30	193.00	161.80
Zabohic	22203	12	119.00	96.50	121.00	98.50	123.00	100.50	125.30	102.80	127.30	104.80
Zabohid	22204	14	82.80	61.50	84.30	63.00	85.50	64.30	86.80	65.50	88.30	67.00
Zabohif	22205	16	58.50	41.00	59.30	41.80	60.30	42.80	61.00	43.50	61.80	44.30
Zabohig	22206	18	47.00	30.80	47.50	31.30	48.00	31.80	48.50	32.30	49.00	32.80
Zabohih	22207	20	39.30	25.50	39.80	26.00	40.30	26.50	40.50	26.80	40.80	27.00
Zabohik	22208	22	34.50	20.80	34.50	20.80	34.80	21.00	35.00	21.30	35.30	21.50

SHOW WINDOW CORD.

List Price, per 1000 Feet.

Code Word.	List No.	Size B. & S.	21 Cent Bars. Silk Covered.	21 Cent Bars. Cotton Covered Dry or Slicked.	22 Cent Bars. Silk Covered.	22 Cent Bars. Cotton Covered Dry or Slicked.	23 Cent Bars. Silk Covered.	23 Cent Bars. Cotton Covered Dry or Slicked.
Zabohil	22209	10	185.80	135.80	188.40	138.40	239.00	176.50
Zabohim	22210	12	140.00	100.00	141.80	101.80	179.30	129.30
Zabohin	22211	14	104.20	71.20	105.20	72.20	133.00	91.80
Zabohip	22212	16	80.00	56.00	80.60	56.60	101.50	71.50
Zabohir	22213	18	67.40	45.40	67.80	45.80	85.30	57.80
Zabohis	22214	20	58.80	38.80	59.00	39.00	74.00	49.00
Zabohit	22215	22	53.00	36.00	53.20	36.20	66.80	45.50

Code Word.	List No.	Size B. & S.	24 Ct. Bars. Silk Cov.	24 Ct. Bars. Cotton Cov. Dry or Slicked	25 Ct. Bars. Silk Cov.	25 Ct. Bars. Cotton Cov. Dry or Slicked	26 Ct. Bars. Silk Cov.	26 Ct. Bars. Cotton Cov. Dry or Slicked	27 Ct. Bars. Silk Cov.	27 Ct. Bars. Cotton Cov. Dry or Slicked	28 Ct. Bars. Silk Cov.	28 Ct. Bars. Cotton Cov. Dry or Slicked.
Zabohil	22209	10	242.30	179.80	245.50	183.00	248.80	186.30	252.00	189.50	255.50	193.00
Zabohim	22210	12	181.50	131.50	183.50	133.50	185.50	135.50	187.80	137.80	189.80	139.80
Zabohin	22211	14	134.00	92.80	135.50	94.30	136.80	95.50	138.00	96.80	139.50	98.30
Zabohip	22212	16	102.30	72.30	103.00	73.00	104.00	74.00	104.80	74.80	105.50	75.50
Zabohir	22213	18	85.80	58.30	86.30	58.80	86.80	59.30	87.30	59.80	87.80	60.30
Zabohis	22214	20	74.30	49.30	74.80	49.80	75.30	50.30	75.50	50.50	75.80	50.80
Zabohit	22215	22	67.00	45.80	67.00	45.80	67.30	46.00	67.50	46.30	67.80	46.50

Orders should specify whether silk or cotton Lamp Cord is desired.

MAGNET WIRE.

Code Word.	List No.	Side B. and S.	List Price per Pound. Cotton Wound. Single.	Cotton Wound. Double.	Silk Wound. Single.	Silk Wound. Double.
Zacefe	17625	16	...	...	$0.80	$0.92
Zacefeb	17626	17	...	...	.82	.94
Zacefec	17627	18	...	...	.84	.96
Zacefed	17628	19	...	...	.86	.98
Zacefef	17629	20	$0.58	$0.64	.88	1.00
Zacefeg	17630	21	.60	.70	.90	1.02
Zacefeh	17631	22	.62	.74	.92	1.06
Zacefek	17632	23	.65	.78	.96	1.12
Zacefel	17633	24	.68	.84	1.02	1.22
Zacefem	17634	25	.73	.92	1.10	1.36
Zacefen	17635	26	.81	1.00	1.20	1.50
Zacefep	17636	27	.86	1.10	1.30	1.66
Zacefer	17637	28	.92	1.20	1.38	1.84
Zacefes	17638	29	.98	1.30	1.48	2.12
Zacefet	17639	30	1.02	1.42	1.60	2.56
Zacefev	17640	31	1.12	1.54	1.76	3.08
Zacefew	17641	32	1.24	1.64	1.98	3.40
Zacefex	17642	33	1.44	1.88	2.24	4.00
Zacefey	17643	34	1.64	2.20	2.54	4.60
Zacefez	17644	35	1.86	2.50	2.88	5.00
Zacefi	17645	36	2.12	3.00	3.40	5.60
Zacefib	17646	37	2.70	4.30	4.20	6.60
Zacefic	17647	38	3.60	5.70	4.90	7.40
Zacefid	17648	39	4.70	7.20	6.20	9.00
Zacefif	17649	40	6.00	9.00	8.00	10.80

GERMAN SILVER WIRE.

Zacefig	17650	16	1.40	1.70	1.85	2.38
Zacefih	17651	17	1.40	1.70	1.85	2.38
Zacefik	17652	18	1.40	1.70	1.85	2.38
Zacefil	17653	19	1.40	1.70	1.85	2.38
Zacefim	17654	20	1.42	1.74	1.88	2.43
Zacefin	17655	21	1.44	1.75	1.93	2.48
Zacefip	17656	22	1.52	1.83	2.06	2.64
Zacefir	17657	23	1.62	1.98	2.21	2.87
Zacefis	17658	24	1.71	2.09	2.37	3.08
Zacefit	17659	25	1.84	2.26	2.65	3.48
Zacefiv	17660	26	2.05	2.48	3.02	3.93
Zacefiw	17661	27	2.25	2.73	3.23	4.20
Zacefix	17662	28	2.45	2.98	3.42	4.43
Zacefiy	17663	29	2.60	3.13	3.85	5.00
Zacefiz	17664	30	2.84	3.38	4.14	5.33
Zacefo	17665	31	3.09	3.66	4.52	5.21
Zacefob	17666	32	3.59	4.21	4.94	6.23
Zacefoc	17667	33	3.96	4.64	5.46	6.89
Zacefod	17668	34	4.61	5.44	5.84	7.29
Zacefof	17669	35	5.01	5.69	7.52	9.45
Zacefog	17670	36	8.09	8.88	10.00	11.75
Zacefoh	17671	37	13.00	13.75	18.50	22.00
Zacefok	17672	38	24.00	27.00	28.00	33.00
Zacefol	17673	39	27.00	30.00	30.00	40.00
Zacefom	17674	40	30.00	33.00	45.00	50.00

Above prices based on 18 per cent German Silver Wire. 30 per cent wire at same lists, but orders must so specify.

LEAD ENCASED ELECTRIC LIGHT CONDUCTORS.

WHITE OR BLACK CORE, SEAMLESS RUBBER INSULATION.

TAPED AND LEAD ENCASED.

Single and Duplex. National Electrical Code Standard. 600 Volts.

SOLID.

Size B. & S. G.	Wall Insulation. Single. Inch.	Wall Lead. Inch.	Diam. Lead. Single.	Diam. Lead. Duplex Flat.	List Price per 1000 Feet. Single.	List Price per 1000 Feet. Duplex Flat.
16	1/32	3/64	.238	.351	$42.75	$73.50
14	3/64	3/64	.282	.441	56.25	97.50
12	3/64	3/64	.300	.475	64.25	112.50
10	3/64	1/16	.352	.548	76.00	134.75
8	3/64	1/16	.379	.602	113.50	182.00
6	1/16	1/16	.444	.732	150.95	253.50
5	1/16	1/16	.464	.772	156.75	286.75
4	1/16	1/16	.486	.816	177.75	327.35
3	1/16	1/16	.510	.864	203.00	371.00
2	1/16	1/16	.539	.922	235.00	432.25
1	5/64	1/16	.601	1.046	288.50	534.75
0	5/64	1/16	.637	1.118	336.50	628.50

STRANDED.

Size B. & S. G.	Strand Copper.	Ins. Wall. Inch.	Lead. Wall. Inch.	Diam. Lead. Single.	Diam. Lead. Duplex. Flat.	List Price, per 1000 Feet. Single.	List Price, per 1000 Feet. Duplex.
12	7x.0306	3/64	3/64	.311	.497	71.60	133.00
10	7x.0386	3/64	1/16	.365	.575	104.40	170.25
9	7x.0430	3/64	1/16	.379	.602	112.15	183.75
8	7x.0485	3/64	1/16	.394	.632	122.75	203.50
7	7x.0545	1/16	1/16	.446	.736	151.75	254.50
6	7x.0613	1/16	1/16	.466	.776	155.75	285.00
5	7x.0688	1/16	1/16	488	.820	173.00	318.00
4	7x.0773	1/16	1/16	.514	.872	196.00	357.00
3	7x.0868	1/16	1/16	.545	.934	226.75	415.50
2	7x.0974	1/16	1/16	.578	1.000	259.75	479.50
1	19x.0672	5/64	1/16	.644	1.132	329.00	614.00
0	19x.0746	5/64	1/16	.685	1.214	379.50	710.00
00	19x.0838	5/64	1/16	.731	1.306	440.50	830.00
000	19x.0940	5/64	3/32	.845	1.470	590.00	1110.00
0000	19x.1055	5/64	3/32	.902	1.585	688.00	1298.00

LEAD CABLES.

CIRCULAR MILL LEAD ENCASED ELECTRIC LIGHT CONDUCTORS.

White or Black Core Seamless Rubber Insulation.

SINGLE, TAPED AND LEAD ENCASED, 600 VOLTS NATIONAL ELECTRICAL CODE STANDARD.

Code Word.	List No.	Mfr. No.	Size C. M.	Strand, Copper.	Wall Ins., Inches.	Lead, Wall, Inches.	Approximate Diam. Lead. Single.	List Price. 1,000 Feet. Single.
Zadepar	3948	3915	.....	.....	....	....	....	.....
Zadepas	3949	3917	250,000	37x.0822	3-32	3-32	.978	$772.50
Zadepat	3950	3919	300,000	37x.0901	3-32	3-32	1.034	870.00
Zadepav	3951	3921	350,000	37x.0973	3-32	3-32	1.085	980.00
Zadepaw	3952	3923	400,000	37x.104	3-32	3-32	1.132	1,089.00
Zadepax	3953	3925	450,000	37x.110	3-32	3-32	1.175	1,186.00
Zadepay	3954	3927	500,000	61x.0905	7-64	3-32	1.250	1,338.00
Zadepaz	3955	3929	550,000	61x.095	7-64	3-32	1.290	1,445.00
Zadepe	3956	3931	600,000	61x.099	7-64	3-32	1.327	1,540.00
Zadepeb	3957	3933	650,000	61x.103	7-64	3-32	1.365	1,642.00
Zadepec	3958	3935	700,000	61x.107	7-64	3-32	1.400	1,775.00
Zadeped	3959	3937	750,000	61x.1109	7-64	1-10	1.448	1.862.00
Zadepef	3960	3939	800,000	61x.1145	7-64	1-10	1.480	1,965.00
Zadepeg	3961	3941	850,000	61x.1181	7-64	1-10	1.511	2,065.00
Zadepeh	3962	3943	900,000	61x.1216	7-64	1-10	1.554	2,178.00
Zadepek	3963	3945	950,000	61x.1245	7-64	1-10	1.575	2,245.00
Zadepel	3964	3947	1,000,000	91x.1048	1-8	1-10	1.635	2,425.00

Strands composed of heavily and evenly tinned wires, laid concentric.

MINING MACHINE CABLES.

DUPLEX.

FLEXIBLE STRANDED COPPER CONDUCTORS, EACH CONDUCTOR TAPED OR BRAIDED.

The Pair of Conductors, Double or Triple Braided.

NATIONAL ELECTRICAL CODE STANDARD, 600 VOLTS.

			Size B. & S. Gauge.	Strand.	Wall Ins., Ins.	List Price per 1,000 Feet. Two Braids. Over All.	Three Braids. Over All.
Zadepem	3965	9901	10	37	3-64	$126.10	$141.50
Zadepen	3966	9903	8	37	3-64	169.20	186.80
Zadepep	3967	9905	6	49	1-16	247.30	267.10
Zadeper	3968	9907	5	49	1-16	288.00	310.00
Zadepes	3969	9909	4	49	1-16	341.00	365.20
Zadepet	3970	9911	3	49	1-16	403.00	429.00
Zadepev	3971	9913	2	49	1-16	484.00	513.00
Zadepew	3972	9915	1	49	5-64	636.00	673.00
Zadepex	3973	9917	0	49	5-64	803.00	845.00
Zadepey	3974	9919	00	49	5-64	964.00	1,010.00
Zadepez	3975	9921	000	49	5-64	1,162.00	1,212.00
Zadepi	3976	9923	0000	49	5-64	1,397.00	1,452.00

WIRE AND CABLES

HARD DRAWN COPPER TROLLEY WIRE.

0 Round Trolley.

2-0 Figure Eight Trolley.

2-0 Grooved Trolley.

APPROXIMATE WEIGHT AND MEASUREMENT OF TROLLEY WIRE.

Size.	Circular Mils.	Lbs. per 1,000 Feet.	Lbs. Per Mile.
0 B. & S.	105,538	318.8	1,684
2-0 B. & S.	133,079	402.1	2,123
3-0 B. & S.	167,805	507.	2.677
4-0 B. & S.	211,600	639.3	3,376

Lowest Market Prices Quoted on Application.

GALVANIZED MAST ARM ROPE,

OR

FLEXIBLE ARC LIGHT WIRE ROPE.

Code Word.	List No.	Diameter	Weight per Foot. in Pounds.	List Price per 100 Feet.
Moor	1412	⅜	1.58	$5.00
Moot	1413	5/16	1.09	3.50
Morn	1414	¼	0.70	2.75

DOUBLE GALVANIZED TELEPHONE AND TELEGRAPH WIRE.

Code Word.	List No.	Mfr No.	Diameter in Inches.	E. B. B. Breaking	B. B. Strain in	Steel. Pounds.	Weight in lbs. per Mile.	Bundles.
Vivifys	15757	4	.225	2190	2409	2701	730	¼ mile
Volunteers	15758	6	.192	1620	1782	1998	540	⅓ mile
Voracitys	15759	8	.162	1140	1254	1406	380	½ mile
Volumes	15760	9	.148	960	1056	1184	320	½ mile
Volleys	15761	10	.135	780	858	962	260	½ mile
Volcanos	15762	11	.120	642	706	792	214	½ mile
Volatiles	15763	12	.105	495	545	611	165	½ mile
Vizards	15764	14	.080	288	317	355	96	½ mile

Prices on Application.

CLIMAX RESISTANCE WIRE.

"Climax" Resistance Wire has the highest specific resistance of any wire on the market.

It is about 50 times the resistance of copper, while German silver is only 18 times, and ordinary steel wire about 8 times the resistance of a copper wire of the same diameter.

Its low temperature co-efficient fits it for any use to which German silver can be applied, and its high specific resistance renders it an economical substitute. Its mechanical properties make it available for rheostat work where German silver is useless, on account of its brittleness caused by repeated heating and cooling.

Code Word.	List No.	No. B. & S.	Bare, per Pound.	Cotton Covered. Single.	Cotton Covered. Double.	Silk Covered. Single.	Silk Covered. Double.
Zadanuz	27566	8 and	$1.10	$2.40	$3.10		
Zadapa	27567	heavier					
Zadapab	27568	9	1.10	2.40	3.10		
Zadapac	27569	10	1.15	2.40	3.10		
Zadapad	27570	11	1.15	2.40	3.10		
Zadapaf	27571	12	1.15	2.40	3.10		
Zadapag	27572	13	1.20	2.65	3.35		
Zadapah	27573	14	1.20	2.65	3.35		
Zadapak	27574	15	1.20	2.65	3.35		
Zadapal	27575	16	1.25	2.65	3.35		
Zadapam	27576	17	1.25	2.65	3.35		
Zadapan	27577	18	1.30	2.93	3.56	$3.90	$4.70
Zadapap	27578	19	1.30	2.93	3.56	3.90	4.70
Zadapar	27579	20	1.30	2.98	3.63	4.05	4.80
Zadapas	27580	21	1.35	3.03	3.66	4.05	4.80
Zadapat	27581	22	1.35	3.19	3.83	4.24	4.94
Zadapav	27582	23	1.35	3.40	4.16	4.60	5.46
Zadapaw	27583	24	1.40	3.60	4.40	4.90	5.60
Zadapax	27584	25	1.40	3.86	4.73	5.30	5.70
Zadapay	27585	26	1.40	4.30	5.20	5.80	6.10
Zadapaz	27586	27	1.50	4.73	5.73	6.10	7.14
Zadape	27587	28	1.60	5.13	6.26	6.60	7.75
Zadapeb	27588	29	1.70	5.46	6.56	6.94	8.50
Zadapec	27589	30	1.85	5.96	7.10	7.40	8.98
Zadaped	27590	31	2.00	6.50	7.70	7.90	10.00
Zadapef	27591	32	2.25	7.53	8.83	9.20	10.40
Zadapeg	27592	33	2.50	8.30	9.73	10.10	11.50
Zadapeh	27593	34	3.25	9.66	11.43	11.84	13.40
Zadapek	27594	35	4.50	12.75	14.00	14.50	16.00
Zadapel	27595	36	6.50	17.00	18.60	19.20	21.00
Zadapem	27596	37	11.50	20.00	22.00	24.00	26.00
Zadapen	27597	38	18.00	24.00	26.00	27.00	29.00
Zadapep	27598	39	22.00	30.00	32.00	32.00	34.00
Zadaper	27599	40	30.00	36.00	40.00	40.00	46.00

We furnish Climax with tin coating.

Tables showing resistances per 1000 feet, and carrying capacities of "Climax" wire, mailed on application.

Prices and resistances of "Climax" Resistance Ribbon mailed on application.

WIRE AND CABLES.

PLATINUM WIRE.

Code Word.	List No.		Weight Per Foot.
Amateurs	12730	No. 12, per inch	310.7 grains
Amatorialy	12731	No. 14, per inch	195.4 grains
Amatorys	12732	No. 16, per inch	122.8 grains
Amaurosisly	12733	No. 18, per inch	77.3 grains
Ambassadors	12734	No. 20, per inch	48.6 grains
Amberg	12735	No. 22, per inch	30.6 grains
Ambiguitys	12736	No. 24, per inch	19.2 grains
Ambiguousy	12737	No. 26, per foot	12.1 grains
Ambitioun	12738	No. 28, per foot	7.60 grains
Ambrosias	12739	No. 30, per foot	4.79 grains
Ambrosials	12740	No. 32, per foot	3.01 grains
Ambrotypes	12741	No. 34, per foot	1.89 grains
Ambulated	12742	No. 36, per foot	1.19 grains

Lowest Market Prices on Application.

PHOSPHOR-BRONZE TINNED BINDING WIRE.

Code Word.	List No.	Size.	List Price Per Lb.	Code Word.	List No.	Size.	List Price Per Lb.
Measles	15723	10 and larger	$ .63	Medicate	15737	23	$ .73
Measure	15724	11 to 16	.65	Medicine	15738	24	.75
Meat	15731	17	.66	Medics	15739	25	.79
Mechanic	15732	18	.66	Meditate	15740	26	.83
Medal	15733	19	.67	Medium	15741	27	.89
Mede	15734	20	.67	Medlar	15742	28	.95
Medial	15735	21	.69	Medley	15743	29	1.05
Mediate	15736	22	.71	Meed	15744	30	1.15

BRASS BINDING WIRE.

Magenta	15725	10 and larger	.27	Mat	1423	29	.49
Mainmast	15726	10 to 16	.27½	Matador	1424	30	.52
Maintain	15727	17 and 18	.28	Match	15745	31	.55
Mamma	15728	19 and 20	.29	Matchlock	15746	32	.59
Mammoth	1415	21	.30	Material	15747	33	.63
Maple	1416	22	.31	Maternal	15748	34	.68
Maplike	1417	23	.32	Matin	15749	35	.74
Mass	1418	24	.34	Matrix	15750	36	.80
Massive	1419	25	.36	Mattock	15751	37	1.04
Master	1420	26	.39	Mattress	15752	38	1.34
Masterly	1421	27	.42	Mature	15753	39	2.00
Masthead	1422	28	.46	Matweed	15754	40	2.60

STEEL FISH WIRE.

Flat Steel Spring Wire Made Especially to Fish Conduits, Etc.

Code Word.	List No.	Approximate Weight per 100 Feet.	List Price Per Foot in 100-foot Coils.
Meek	15755	1½ lbs.	$ .02

Special Prices Quoted in Lots of 100 Pounds and Over.

NON-METALLIC FLEXIBLE CONDUIT.

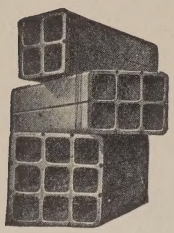
AMERICAN CIRCULAR LOOM CO. TRADE MARK REGISTERED

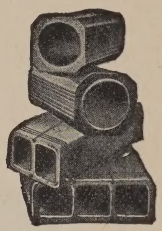
O F C C FLEXDUCT

1. It is thoroughly flexible.
2. It is tough and strong.
3. It does not kink or collapse.
4. It has a smooth interior.
5. It is waterproof.
6. It does not carry fire.

Code Word.	List No.	Inside Diameter.	Feet in Coil.	Weight Per 1000 ft.	List Price, Per Foot.
Zamun	17583	¼ inch	250	75 lbs.	$0.06
Zamup	17584	⅜ inch	250	110 lbs.	.07
Zamur	17585	½ inch	200	125 lbs.	.08
Zamus	17586	⅝ inch	200	155 lbs.	.10
Zamut	17587	¾ inch	150	200 lbs.	.12
Zamuv	17588	1 inch	100	275 lbs.	.16
Zamuw	17589	1¼ inch	100	360 lbs.	.20
Zamux	17590	1½ inch	100	400 lbs.	.34
Zamuz	17591	1¾ inch	100	440 lbs.	.40
Zana	17592	2 inch	Odd lengths	600 lbs.	.50
Zanab	17593	2¼ inch	Odd lengths	700 lbs.	.65

STANDARD VITRIFIED CONDUIT.





This conduit is made of pure stoneware clay, and the utmost care is exercised to guard against cracking, warping, blistering and other structural defects.

It is made in ten different forms of multiple and single duct. Standard bore is 3¼ inches square or round. 3½ inch or 4 inch bore to order.

Single duct, round or square bore, 18 inches long.

Multiple duct, two or three way, 24 inches long.

Four or six, or nine way, 36 inches long.

Prices quoted will be net per duct foot, and are governed by trade conditions during the season.

Illustrated catalog mailed upon request.

Conduits made from sketches to order.

PRICES QUOTED ON APPLICATION.

CONDUIT.

"LORICATED" ENAMELED STEEL CONDUIT AND FITTINGS.

Approved by the National Board of Fire Underwriters.

TUBE.

Code Word.	List No.	Standard Size Pipe.	Actual Internal Diameter.	Outside Diameter.	Nominal Weight per 100 Feet.	No. of Threads per Inch of Screw.	List Price, per 100 Feet.
Zamiw	17553	½ in.	39-64 in.	54-64 in.	85 lbs.	14	$12.50
Zamix	17554	¾ in.	52-64 in.	1 4-64 in.	112 lbs.	14	16.00
Zamiz	17555	1 in.	1 2-64 in.	2 21-64 in.	167 lbs.	11½	21.00
Zamo	17556	1¼ in.	1 24-64 in.	1 43-64 in.	224 lbs.	11½	30.00
Zamob	17557	1½ in.	1 38-64 in.	1 58-64 in.	268 lbs.	11½	34.00
Zamod	17558	2 in.	2 4-64 in.	2 25-64 in.	361 lbs.	11½	47.00
Zamof	17559	2½ in.	2 30-64 in.	2 57-64 in.	594 lbs.	8	73.00
Zamog	17560	3 in.	3 2-64 in.	3 32-64 in.	754 lbs.	8	107.00
Zamoh	17561	3½ in.	3 34-64 in.	4 in.	900 lbs.	8	141.00
Zamok	17562	4 in.	4 4-64 in.	4 32-64 in.	1066 lbs.	8	175.00

ELBOWS.

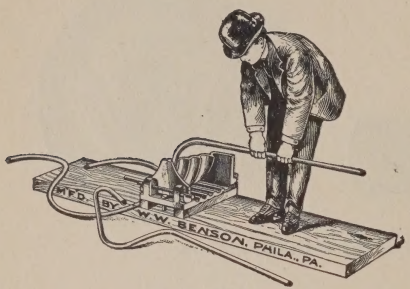
		Standard Size Pipe.	No. Threads per Inch.	List Price, per 100.
Zamol	17563	½ in.	14	22.00
Zamom	17564	¾ in.	14	27.00
Zamon	17575	1 in.	11½	45.00
Zamop	17566	1¼ in.	11½	70.00
Zamor	17567	1½ in.	11½	115.00
Zamos	17568	2 in.	11½	200.00
Zamot	17569	2½ in.	8	310.00
Zamov	17570	3 in.	8	900.00
Zamow	17571	3½ in.	8	2000.00
Zamox	17572	4 in.	8	2295.00

COUPLINGS.

Zamoz	17573	½ in.	14	8.00
Zamu	17574	¾ in.	14	11.00
Zamub	17575	1 in.	11½	13.00
Zamud	17576	1¼ in.	11½	17.00
Zamuf	17577	1½ in.	11½	21.00
Zamug	17578	2 in.	11½	28.00
Zamuh	17579	2½ in.	8	40.00
Zamuk	17580	3 in.	8	60.00
Zamul	17581	3½ in.	8	100.00
Zamum	17582	4 in.	8	140.00

CONDUIT ACCESSORIES.

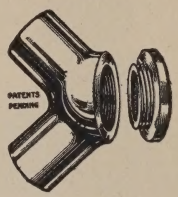
BENSON CONDUIT BENDER.



No. 3334.

Code Word.	List No.		List Price, Each.
Zadico	3334	For ½ in. conduit only.	$4.00
Zadicob	3335	For ¾ in. conduit only.	4.00
Zadicoc	3336	For 1 in. conduit only.	4.00
Zadicod	3337	For 1¼ in. conduit only	7.00
Zadicof	3338	For 1½ in. conduit only	8.00
Zadicog	3339	For ½ to 1½ inclusive.	30.00

BENDHICKS.

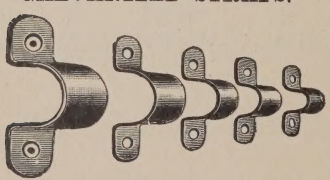


No. 3342.

Code Word.	List No.		Std. Pkg.	List Price, Each.
Zadicol	3342	½ inch...	100	$0.60
Zadicom	3343	¾ inch...	100	.70
Zadicon	3344	1 inch...	48	.84
Zadicop	3345	1¼ inch...	24	1.20
Zadicor	3346	1½ inch...	20	1.60
Zadicos	3347	2 inch...	20	2.60

2½ and 3 inches on application.

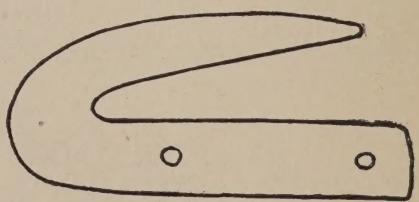
GALVANIZED STRAPS.



No. 3340.

Zadicoh 3340 Per pound..... .24

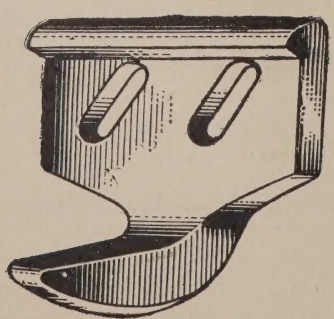
GIRDER HOODS.



No. 3348.

Zadicot 3348 86 Per 100..... 5.00

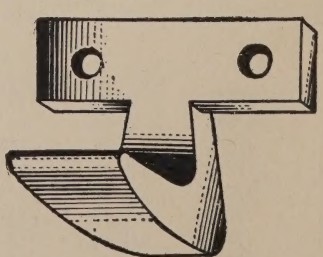
PEACOCK GIRDER HOOKS.



No. 3341.

Zadicok 3341 Per 100..... 5.00

BALTON GIRDER HOOKS.



No. 3349.

Zadicov 3349 Per 100..... 5.00

PIPE HANGERS.

Style D.

STYLE D, RING ONLY.

List No.	Size.	List Price, Each.
28303	½	$0.20
28304	¾	.20
28305	1	.22
28306	1¼	.24
28307	1½	.28
28308	2	.30
28309	2½	.32
28310	3	.40
28311	3½	.44

Style B.

STYLE B, FITTED WITH BEAM PLATES.

List No.	Size.	List Price, Each.
28312	½	$0.25
28313	¾	.25
28314	1	.28
28315	1¼	.30
28316	1½	.35
28317	2	.40
28318	2½	.43
28319	3	.48
28320	3½	.55

This hanger is used extensively for interior "finished" work.

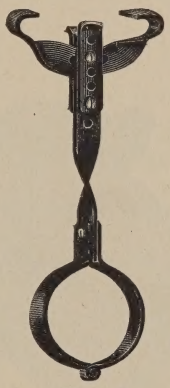
Style A.

STYLE A, FITTED WITH LAG SCREW.

28321	½	.25
28322	¾	.25
28323	1	.28
28324	1¼	.30
28325	1½	.35
28326	2	.40
28327	2½	.43
28328	3	.48
28329	3½	.55

Fitted with lag screw to thread into wooden beams.

If desired, the screw can be turned at right angles.



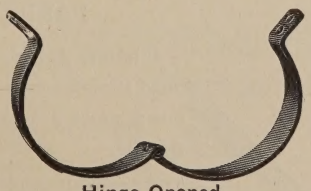
Style C.

STYLE C, FITTED WITH EYE BEAM CLAMPS.

28330	½	.40
28331	¾	.40
28332	1	.44
28333	1¼	.48
28334	1½	.52
28335	2	.57
28336	2½	.63
28337	3	.68
28338	3½	.75

Each clamp is adjustable from 1 inch to 6 inches inclusive.

Special sizes can be furnished on order.



Hinge Opened.

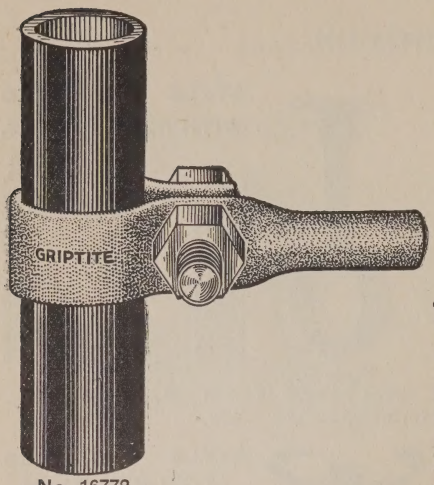
EXTENSION BAR.

Used in connection with these hangers. Is made of the same material with holes for bolts one-half inch apart. Furnished in five or ten foot lengths.

Four inches of bar allowed to each hanger.

It can be cut easily with cold chisel to any desired length, thus making drop required.

		Per Foot.
28339	14 Gauge x ⅞ inch for ½ to 1½ inch pipe inclusive	.08
28340	12 Gauge x1 inch for 2 to 3 inch pipe inclusive	.09
28341	10 Gauge x1⅛ inch for 3½ to 6 inch pipe inclusive	.10



No. 16772.

"GRIPTITE."

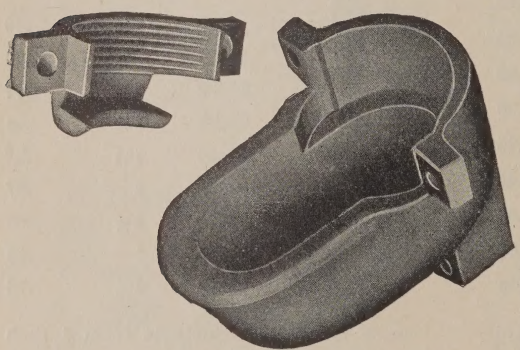
GROUND CONNECTION CLAMP.

Made of Copper.

Lug Takes No. 4 B. and S. Wire.

Approved by Fire Underwriters.

Code Word.	List No.		List Price, Each.
Zacavif	16771	For ½ inch iron pipe.	$0.24
Zacavig	16772	For ¾ inch iron pipe.	.28
Zacavih	16773	For 1 inch iron pipe.	.34
Zacavik	16774	For 1¼ inch iron pipe.	.40
Zacavil	16775	For 1½ inch iron pipe.	.46
Zacavim	16776	For 2 inch iron pipe.	.52
Zacefay	17623	For 2½ inch iron pipe.	.58
Zacefaz	17624	For 3 inch iron pipe.	.64


No. 16779.

"G. V." PIPE CAP.

A Cap for covering the outdoor end of service pipe.

			Std. Pkg.	
Zacavin	16777	½ inch...	50	.60
Zacavip	16778	¾ inch...	50	.70
Zacavir	16779	1 inch...	30	1.00
Zacavis	16780	1¼ inch...	30	1.20
Zacavit	16781	1½ inch...	30	1.40
Zacaviv	16782	2 inch...	10	1.70
Zacaviw	16783	2½ inch...	10	2.40
Zacaviz	16784	3 inch...	10	3.60

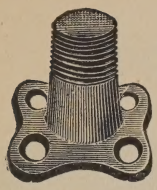
DANDY PIPE BENDER.

A handy tool for bending conduit. It will not bend the pipe on a radius of less than 3½ inches, but a short bend may be made by reversing the Bender.

It is small, and can be carried in almost any tool kit.

Patent Pending.
No. 16785.

Zacaviy	16785	Bender complete, for ½ inch pipe.	2.75
Zacaviz	16786	Bender head only tapped for 1¼ inch pipe handle.....	2.00
Zacavo	16787	Bender complete, for ¾ inch pipe.	3.00
Zacavob	16788	Bender head only tapped for 1¼ inch pipe handle.....	2.25

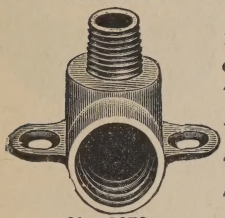


No. 8068.

BOSSERT FIXTURE STEMS AND GAS ELBOWS.

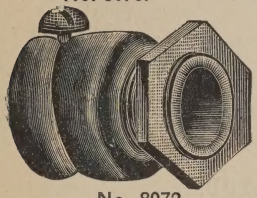
Fixture stems for electric fixtures will be furnished, if so desired, for Bossert boxes. The stems are attached to boxes by means of stove bolts, which are included in prices below.

The gas elbow shown in cut is designed to be used with box No. 1900.



No. 8070.

Code Word.	List No.			List Price Per 100.
Augur	8068	81	Fixture stem for ½-inch pipe.....	$6.50
Augury	8069	81C	Fixture stem for ⅜-inch pipe.....	6.50
August	8070	90	Gas elbow for ½-inch pipe.....	12.00
Aunt	8071	91	Gas elbow for ⅜-inch pipe.....	12.00

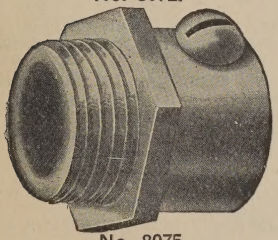


No. 8072.

BOSSERT FLEXIBLE CONDUIT BUSHINGS.

			Standard Packages.	
Aureole	8072	½ inch	100	8.00
Auricle	8073	¾ inch	100	12.00
Auricular	8074	1 inch	50	16.00

Above prices do not include check nuts.



No. 8075.

BUSHINGS FOR GREENFIELD ARMORED CONDUCTORS.

Bushing shown in cut has been designed for use with the Sprague Armored Conductors in connection with our Standard Outlet Boxes.

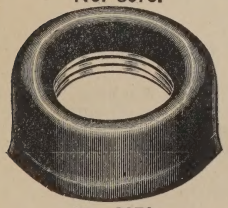
They are made of steel and in two sizes as listed below and each bushing is provided with two check nuts, which are included in list prices.

In installing, insert end of Armored Conductor in sleeve end of bushing, and set screw can then be tightened, holding cable securely. Run off one check nut and insert threaded end of bushing in outlet provided in box, screw on check nut and tighten it securely against wall of box. One check nut must remain on bushing, as this is intended to form a shoulder which prevents bushing from entering too far into the box.

Auriform	8075	98—For No .14 B. X. Armored Conductor	8.00
Aurist	8076	99—For No. 12 B. X.—No. 14 B. X. L.—or No. 14, 3 Wire Conductor	8.00

Bushings will not be furnished without check nuts.

This type of Bushings cannot be used with Greenfield conduit.



No. 8079.

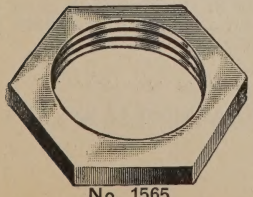
"MONITOR" BUSHINGS.

Aurora	8077	½ inch	100	5.00
Auspice	8078	¾ inch	100	8.00
Auspicious	8079	1 inch	50	15.00
Austere	8080	1¼ inch	50	18.00
Adjutant	7928	1½ inch	50	20.00
Adlibitum	7929	2 inch	20	30.00
Absorpt	1559	2½ inch	20	50.00
Abstain	1560	3 inch	20	80.00

No. 1561.

BOX INSULATORS.

Osetto	1561	A 32—For ½ inch pipe.....	7.00
Absterge	1562	A 33—For ¾ inch pipe.....	8.75



No. 1565.

CHECK NUTS.

Abstinence	1563	½ inch check nuts.....	5000	1.00
Abstinent	1564	¾ inch check nuts.....	5000	1.50
Abstract	1565	1 inch check nuts.....	100	4.00
Abstruse	1566	1¼ inch check nuts.....	100	6.50
Attitude	8056	1½ inch check nuts.....	50	8.00
Benefactor	2502	2 inch check nuts.....	50	10.00
Berate	2487	2½ inch check nuts.....	25	15.00
Bereave	2503	3 inch check nuts.....	25	30.00

T. AND B. SPECIALTIES.

CONDUIT BUSHINGS.

Nos. 9419 and 9420.

Code Word.	List No.			Std Pkg.	List Price, Per 100.
Zacezan	9419	½	in.	1000	$5.00
Zacezap	9420	¾	in.	100	8.00
Zacezar	9421	1	in.	100	15.00
Zacezas	9422	1¼	in.	100	18.00
Zacezat	9423	1½	in.	50	20.00
Zacezav	9424	2	in.	50	30.00
Zacezaw	9425	2½	in.	25	50.00
Zacezax	9426	3	in.	25	80.00

Nos. 9421 to 9426.

STEEL LOCKNUTS.

No. 9427.

These Locknuts have clean cut machine threads. They hold:

Zacezay	9427	½	in.	1000	1.00
Zacezaz	9428	¾	in.	100	1.50
Zaceze	9429	1	in.	100	4.00
Zacezeb	9430	1¼	in.	100	6.50
Zacezec	9431	1½	in.	50	8.00
Zacezed	9432	2	in.	50	10.00
Zacezef	9433	2½	in.	25	15.00
Zacezeg	9440	3	in.	25	30.00

FIXTURE STUD.

No. 9441.

Is designed to be used either on the inside of box or, better yet, on the outside, with shank passing through centre hole.

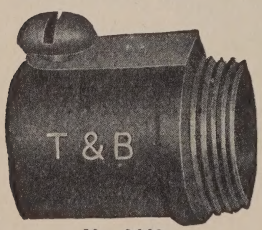
The weight of fixture is then supported by the entire box, instead of by small screws or bolts, as is the case with other studs.

These Studs are made from the best grade of malleable iron, are highly enameled, and the thread is machine cut.

Zacezeh	9441	⅜	in.	100	6.50

List price includes necessary stove bolts or screws for attachment.

BOX AND CONDUIT CONNECTOR.



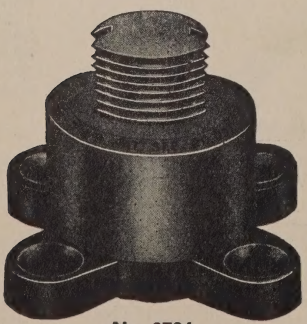
No. 9442.

This Connector used with a T. & B. Bushing is the best device for connecting Flexible Cable or Conduit to any Standard Outlet Box, or when used with a coupling for connecting flexible with enameled or Electro-Galvanized rigid Conduit.

Zacezek	9442	⅜	in.	100	7.50
Zacezel	9443	½	in.	100	7.50

As a result of special machine work the threading is perfeet, thereby effecting a rigid and electrical connection between conduit and box. It can't turn

INSULATING STUD.


No. 9784.

This four prong stud is fastened by means of bolts or screws to bottom of any Standard Outlet Box.

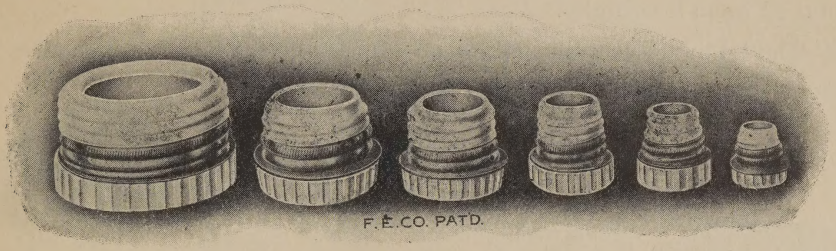
Height of stud is but 1⅜ in., and base is designed to give ample room in box for T. & B. Bushings. A most desirable device in any case, and an absolutely necessary one when French or flat back fixtures are used.

Zacezem	9784	.....	.50

Stud will be furnished already attached to box when so ordered.

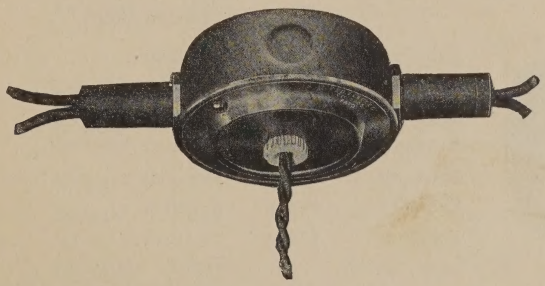
FEDERAL ELECTRIC PORCELAIN CLAMP BUSHINGS.

These are the only Porcelain Socket Bushings made with a lock nut. They are intended especially for sheet metal and similar work. No more trouble to put in than the ordinary bushing. They are made from one piece of the best grade of vitrified porcelain. Clamping rings are made of aluminum, threaded to fit the threads on the porcelain. They are serviceable for use on material one-fourth of an inch or less in thickness. Longer bushings for thicker material furnished upon application.



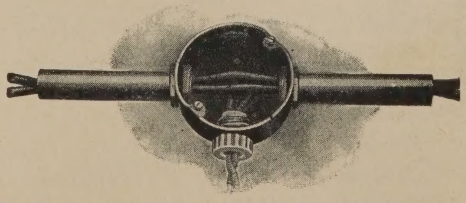
A-6 A-5 A-4 A-3 A-2 A-1

Code Word.	List No.	Mfr. No.	Internal Diameter, Inches.	External Diameter, Inches.	List Price, Each.
Zacidad	19636	A-1	9/32	41/64	$0.06
Zacidaf	19637	A-2	13/32	13/16	.07
Zacidag	19638	A-3	7/16	1	.07½
Zacidah	19639	A-4	3/4	1 5/16	.08½
Zacidak	19640	A-5	15/16	1 19/32	.10½
Zacidal	19641	A-6	1 5/8	2 11/32	.26



Outlet Box Covers for use with Federal Clamp Bushings.

		Mfr. No.	Sizes.	
Zacidam	19642	1	3-in. Brass	.18
Zacidan	19644	15	3-in. Steel	.12
Zacilek	19977	2	3-in. Lapped brass	.18
Zacidap	19645	3	4-in. Brass	.25
Zacidar	19646	35	4-in. Steel	.14



A-2 Bushing fits the knockout holes on Standard Outlet Boxes.

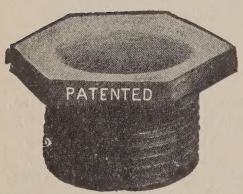
CHASE NIPPLES, COUPLINGS AND BUSHINGS.

The "Chase" nipple is made of malleable iron and finished in enamel. It forms a perfect, mechanical connection between box and conduit.

It allows more working room in the box than any other form of bushing made, prevents abrasion, and allows wires to be fished easily. It makes an ideal bushing for finishing work in switch boxes, owing to the small amount of room it occupies.

The "Chase" coupling allows of adjustibility and avoids exactness in cutting conduit, resulting in a large saving of labor.

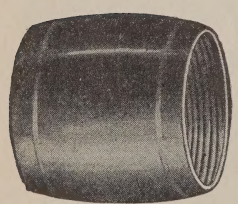
STANDARD GAS PIPE SIZES.



No. 47482.

NIPPLES.

Code Word.	List No.	Size.	List Price Per 100.
Zabahor	47480	½ inch	$ 8.00
Zabahos	47481	¾ inch	12.00
Zabahot	47482	1 inch	15.00
Zabahov	47483	1¼ inch	18.00
Zabahow	47484	1½ inch	20.00
Zabahox	47485	2 inch	30.00
Zabahoz	47486	2½ inch	50.00

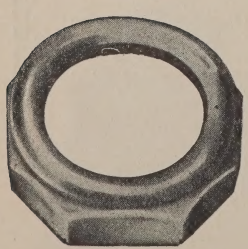

No. 47489.

COUPLINGS.

Zabahu	47487	½ inch	8.00
Zabahub	47488	¾ inch	11.00
Zabahud	47489	1 inch	13.00
Zabahuf	47490	1¼ inch	17.00
Zabahug	47491	1½ inch	21.00
Zabahuh	47492	2 inch	28.00
Zabahuk	47493	2½ inch	40.00

SHAWMUT CONDUIT OUTLET BUSHINGS.

The only perfect capping for the free end of iron armored conduit. The outer portion is perfectly rounded, forming an even surface for the insulated conductors to ride over. It occupies a minimum amount of room in the outer box.


No. 47495.

Zabahul	47494	½ inch	5.00
Zabahum	47495	¾ inch	8.00
Zabahun	47496	1 inch	15.00
Zabahup	47497	1¼ inch	18.00
Zabahur	47498	1½ inch	20.00
Zabahus	47499	2 inch	30.00
Zabahut	47500	2½ inch	50.00
Zabahuv	47501	3 inch	80.00

BOSSERT BOXES.

No. 15571.

Round Outlet and Junction Box, 4x1⅝ Inches.

Code Word.	List No.	B. No.		List Price, Each.
Zacufoz	15571	8B	Standard box	$20.00
Zacufu	15572	31	Open cover (see cut)	6.00
Zacufub	15573	40	Closed cover	6.00
Zacufuc	15574	41	Cover, with ⅜ in. insulated bushing	12.00

This box made for ½ in. and ¾ in. conduit only.

Round Outlet and Junction Box, 4x2¼ Inches.

For lath and plaster.

Zacufud	15575	8B	Deep box	32.00
Zacufuf	15576	31	Open cover	6.00
Zacufug	15577	40	Closed cover	6.00
Zacufuh	15578	41	Cover, with ⅜ in. insulated bushing	12.00

This box made for ½, ¾ and 1 inch conduit only.
No bottom outlets are provided in boxes arranged for 1 in. conduit.

No. 15579.

Bracket Outlet and Junction Box, 2x3 15/16 Inches.

Zacufuk	15579	16	Bracket box	20.00
Zacuful	15580	20	Open cover	6.00
Zacufum	15581	21	Closed cover	6.00

This box is made for ½ in. or ¾ in. conduit.
No cover necessary for 4 inch canopy.

Box for G. E. Receptacle No. 50746, 3x1½ Inches.

Zacufun	15582	17	Receptacle box	22.50
Zacufup	15583	48	Flush brass cover	12.00
Zacufur	15584	49	Lapped brass cover	12.00

This box made for ½ inch conduit only.
Box cannot be furnished with bottom outlets.

Box for G. E. Receptacle No. 9397, 3x1½ Inches.

Zacufus	15591	17A	Box	20.00
Zacufut	15592	48B	Cover, flush	12.00
Zacufuv	15593	49B	Cover, lapped	12.00

For outlet and junction purposes No. 17 A box with the following covers can be used where a small box is necessary.

Zacufuw	15594	50	Closed steel cover	6.00
Zacufux	15595	51	Open steel cover	6.00
Zacufuy	15596	50B	Closed cover, ⅜ in. insulated bushing	12.00

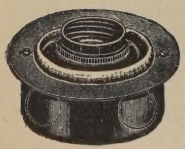
This box made for ½ inch conduit only.

No. 15583.

Switch, Outlet or Junction Box, 4x1½ Inches.

Zacufuz	15597	15	Box	20.00
Zacuga	15598	35	Open cover	8.00
Zacugab	15599	35A	Closed cover	8.00
Zacugac	15600	36	Cover for Hart round base rotary switches	8.00
Zacugad	15722	36A	Cover for Perkins round base rotary switches	8.00
Zacugaf	15601	37	Cover for Standard push button or rectangular base switches or flush plug receptacles	8.00
Zacugag	15602	52	Cover, with ⅜ in. insulated bushing	12.00
Zacugah	10163	38	Cover for 2 push button switches	16.00

This box made for ½ or ¾ in. conduit.

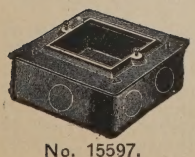


No. 15591.

Box for Norbitt, Trumbull or P. and S. Receptacles, 4x1⅝ Inches.

Zacugak	10117	8N	Box	20.00
Zacugal	10118	53	Cover for C 33⅛ Norbitt rosette	6.00
Zacugam	10119	54	Cover for C 227 Norbitt receptacle	6.00
Zacugan	10120	55	Brass cover for C 33⅛ Norbitt rosette	20.00
Zacugap	10121	56	Brass cover for C 227 Norbitt receptacle	20.00
Zacugar	10122	57	Steel cover for Trumbull receptacle	6.00
Zacugas	10123	71	Brass cover for Trumbull receptacle	20.00
Zacugat	10124	41	Cover, with insulated bushing, for use with P. and S. rosettes, Nos. 400, 401 and 810	12.00

This box made for ½ or ¾ in. conduit.
Box cannot be furnished with bottom outlets.



No. 15597.

Outlet Box for Combination Gas and Electric Fixtures.

Dimensions: 4 in. diameter, for brick work, 1⅝ in. deep; for plaster work, 2¼ in. deep.

Zacugav	10125	600	For brick work	40.00
Zacugaw	10126	600A	For lath and plaster work	52.00
Zacugax	10127	31	Open cover	6.00

BOSSERT BOXES.

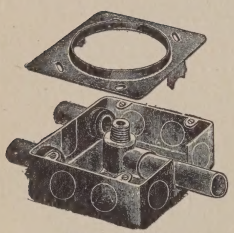
No. 15603.

OUTLET OR JUNCTION BOX FOR LATH OR PLASTER WORK.

4 11-16 x 2¼ inches.

Code Word.	List No.	B. No.		List Price, per 100.
Zacufic	15603	11B	Deep box for plaster	$32.00
Zacufid	15604	43	Open lapped cover	11.00
Zacufif	15605	44	Closed lapped cover	11.00
Zacufig	10128	33	Closed cover	10.00
Zacufih	10129	34	Open cover	10.00

This box made for ½, ¾ or 1 inch conduit.
No bottom outlets are furnished in boxes for 1 inch conduit.



No. 15609.

BOX FOR COMBINATION GAS OR ELECTRIC FIXTURES.

4 x 1½ inches.

Zacufik	15609	1900	Box	20.00
Zacufil	15610	22	Open cover	8.00
Zacufim	15611	23	Closed cover	8.00

This box made for ½ or ¾ inch conduit.

SWITCH BOX FOR NON-METALLIC FLEXIBLE CONDUITS.

3⅛ in. long, 2⅛ in. wide, 3 in. deep.

Zacufin	10101	65	Box	24.00

SWITCH BOX FOR IRON CONDUIT.

3⅛ in. long, 2⅛ in. wide, 3½ in. deep.

Zacufip	10102	70	Box	28.00

BOX FOR CEILING OUTLETS IN TERRA COTTA.

4 x ½ or ¾ inches.

Zacufir	15612	18	Ceiling box, ¾ in. deep	12.00
Zacufis	15613	18A	Ceiling box, ½ in. deep	12.00

This box made for ½ or ¾ inch conduit.
Box cannot be furnished with side outlets.

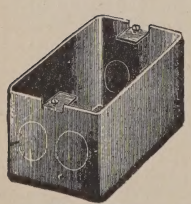
No. 15612.

BOX FOR ROUND BASE ROTARY FLUSH SWITCHES ONLY.

3½ in. long, 2½ in. wide, 2¼ in. deep.

Zacufit	15615	1700	For Perkins Switches	27.00
Zacufiv	15616	1701	For Hart Switches	27.00

GANG BOXES.



No. 15615.

BOXES FOR PUSH BUTTON OR ROTARY RECTANGULAR BASE SWITCHES AND FLUSH PLUG RECEPTACLES.

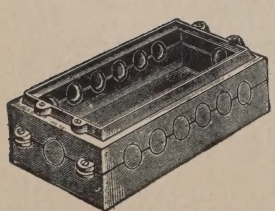
Zacufiw	15617	P. B. 2 for 2 push button switches	60.00
Zacufix	15618	P. B. 3 for 3 push button switches	90.00
Zacufiy	15619	P. B. 4 for 4 push button switches	120.00
Zacufiz	15620	P. B. 5 for 5 push button switches	160.00
Zacufo	15621	P. B. 6 for 6 push button switches	310.00
Zacufob	15622	P. B. 7 for 7 push button switches	500.00
Zacufoc	15623	P. B. 8 for 8 push button switches	540.00
Zacufod	15624	P. B. 9 for 9 push button switches	600.00
Zacufof	15625	P. B. 10 for 10 push button switches	660.00

BOXES FOR HART FLUSH ROUND BASE ROTARY SWITCHES.

Zacufog	10103	F. H. 2 for 2 Hart Switches	60.00
Zacufoh	10104	F. H. 3 for 3 Hart Switches	90.00
Zacufok	10105	F. H. 4 for 4 Hart Switches	120.00
Zacufol	10106	F. H. 5 for 5 Hart Switches	160.00
Zacufom	10107	F. H. 6 for 6 Hart Switches	310.00
Zacufon	10108	F. H. 7 for 7 Hart Switches	500.00
Zacufop	10109	F. H. 8 for 8 Hart Switches	540.00

BOXES FOR PERKINS FLUSH ROUND BASE ROTARY SWITCHES.

Zacufor	10110	F. P. 2 for 2 Perkins Switches	60.00
Zacufos	10111	F. P. 3 for 3 Perkins Switches	90.00
Zacufot	10112	F. P. 4 for 4 Perkins Switches	120.00
Zacufov	10113	F. P. 5 for 5 Perkins Switches	160.00
Zacufow	10114	F. P. 6 for 6 Perkins Switches	310.00
Zacufox	10115	F. P. 7 for 7 Perkins Switches	500.00
Zacufoy	10116	F. P. 8 for 8 Perkins Switches	540.00



Gang Box.

CONDULETS.

TYPE "A" CONDULETS—FOR RIGID CONDUIT.

2 Wire.

3 Wire.

⅛-in. Male Nipple.

⅜-in. Male Nipple

Code Word.	List No.	Conduit, Inches.	Porcelain. 1 Wire. Mfr. No.	List Price.	Porcelain. 2 Wire. Mfr. No.	List Price.	Porcelain. 3 Wire. Mfr. No.	List Price.	Porcelain. For W. P. Socket. Mfr. No.	List Price.	Blank Metal. Mfr. No.	List Price.
Zacuwek	26193	½	A11	$0.34	A12	$0.34	A13	$0.34	A14	$0.40	A10	$0.32
Zacuwel	26194	¾	A21	.46	A22	.46	A23	.46	A24	.56	A20	.42
Zacuwem	26195	1	A31	.68	A32	.68	A33	.68	A34	.83	A30	.66
Zacuwen	26196	1¼	A41	.98	A42	.98	A43	.98	A44	1.18	A40	.94
Zacuwep	26197	1½	A51	1.28	A52	1.28	A53	1.28	A54	1.53	A50	1.25
Zacuwer	26198	2	A61	2.26	A62	2.26	A63	2.26	A64	2.56	A60	2.22
Zacuwes	26199	2½	A71	6.75	A72	6.75	A73	6.75	A74	7.10	A70	6.70
Zacuwet	26200	3	A81	8.00	A82	8.00	A83	8.00	A84	8.40	A80	7.95

			Metal. ⅛-in. Male.		Metal. ⅛-in. Female.		Metal. ⅜-in. Male.		Metal. ⅜-in. Female.	
Zacuwev	26201	½	A15	.44	A16	.44	A17	.49	A18	.49
Zacuwew	26202	¾	A25	.56	A26	.56	A27	.61	A28	.61
Zacuwex	26203	1	A35	.78	A36	.78	A37	.83	A38	.83
Zacuwey	26204	1¼	A45	1.08	A46	1.08	A47	1.13	A48	1.13
Zacuwez	26205	1½	A55	1.38	A56	1.38	A57	1.43	A58	1.43
Zacuwi	26206	2	A65	2.36	A66	2.36	A67	2.41	A68	2.41
Zacuwib	26207	2½	A75	6.85	A76	6.85	A77	6.90	A78	6.90
Zacuwic	26208	3	A85	8.10	A86	8.10	A87	8.15	A88	8.15

			Porcelain. ⅛-in. Male.		Porcelain. ⅛-in. Female.		Porcelain. ⅜-in. Male.		Porcelain. ⅜-in. Female.	
Zacuwid	26209	½	A19	.49	A110	.49	A111	.59	A112	.59
Zacuwif	26210	¾	A29	.61	A210	.61	A211	.72	A212	.72
Zacuwig	26211	1	A39	.86	A310	.86	A311	.96	A312	.96
Zacuwih	26212	1¼	A49	1.20	A410	1.20	A411	1.30	A412	1.30
Zacuwik	26213	1½	A59	1.52	A510	1.52	A511	1.62	A512	1.62
Zacuwil	26214	2	A69	2.56	A610	2.56	A611	2.66	A612	2.66
Zacuwim	26215	2½	A79	7.15	A710	7.15	A711	7.25	A712	7.25
Zacuwin	26216	3	A89	8.55	A810	8.55	A811	8.70	A812	8.70

Covers of all Condulets of the same size on this page are interchangeable.

All Condulets on this page are tapped for standard pipe threads.

Unit Packages: One-half inch (½ inch) Condulets are packed ten in a unit package. Three-quarter inch (¾ inch) and one inch (1 inch) Condulets are packed five in a unit package. One and one-quarter inch (1¼ inch) Condulets and larger are packed one in a unit package.

Standard Packages: Condulets of the same size and type, having one, two or three wire porcelain covers, may be assorted to make up standard package quantities.

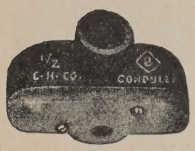
Condulets of the same size and type, having metal covers, may be assorted to make up standard package quantities.

Condulets of the same size and type, having porcelain covers with nipples, may be assorted to make up standard package quantities.

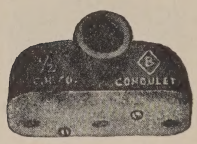
Condulets having covers for weatherproof sockets are not assorted.

CONDULETS.

TYPE "B" CONDULETS—FOR RIGID CONDUIT.

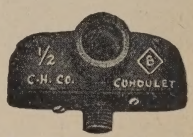


1 Wire.



3 Wire.

⅛-in. Male Nipple.



⅜-in. Male Nipple

Code Word.	List No.	Conduit, Inches.	Porcelain, 1 Wire. Mfr. No.	Porcelain, 1 Wire. List Price.	Porcelain, 2 Wire. Mfr. No.	Porcelain, 2 Wire. List Price.	Porcelain, 3 Wire. Mfr. No.	Porcelain, 3 Wire. List Price.	Blank Metal. Mfr. No.	Blank Metal. List Price.
Zacuwip	26217	½	B11	$0.39	B12	$0.39	B13	$0.39	B10	$0.37
Zacuwir	26218	¾	B21	.51	B22	.51	B23	.51	B20	.47
Zacuwis	26219	1	B31	.75	B32	.75	B33	.75	B30	.73
Zacuwit	26220	1¼	B41	1.16	B42	1.16	B43	1.16	B40	1.12
Zacuwiv	26221	1½	B51	1.52	B52	1.52	B53	1.52	B50	1.49
Zacuwiw	26222	2	B61	2.74	B62	2.74	B63	2.74	B60	2.70

			Metal. ⅛-in. Male		⅛-in. Fem.		⅜-in. Male		⅜-in. Fem.		Porcelain. For W. P. Socket.	
Zacuwix	26223	½	B15	.49	B16	.49	B17	.54	B18	.54	B14	.45
Zacuwiy	26224	¾	B25	.61	B26	.61	B27	.66	B28	.66	B24	.61
Zacuwiz	26225	1	B35	.85	B36	.85	B37	.90	B38	.90	B34	.90
Zacuwo	26226	1¼	B45	1.26	B46	1.26	B47	1.31	B48	1.31	B44	1.36
Zacuwob	26227	1½	B55	1.62	B56	1.62	B57	1.67	B58	1.67	B54	1.77
Zacuwoc	26228	2	B65	2.84	B66	2.84	B67	2.89	B68	2.89	B64	3.04

			Porcelain. ⅛-in. Male.		⅛-in. Female.		⅜-in. Male.		⅜-in. Female.	
Zacuwod	26229	½	B19	.54	B110	.54	B111	.64	B112	.64
Zacuwof	26230	¾	B29	.66	B210	.66	B211	.77	B212	.77
Zacuwog	26231	1	B39	.93	B310	.93	B311	1.03	B312	1.03
Zacuwoh	26232	1¼	B49	1.38	B410	1.38	B411	1.48	B412	1.48
Zacuwok	26233	1½	B59	1.76	B510	1.76	B511	1.86	B512	1.86
Zacuwol	26234	2	B69	3.04	B610	3.04	B611	3.14	B612	3.14

Covers of all Condulets of the same size on this page are interchangeable.

All Condulets on this page are tapped for standard pipe threads.

Unit Packages: One-half inch (½ inch) Condulets are packed ten in a unit package. Three-quarter inch (¾ inch) and one inch (1 inch) Condulets are packed five in a unit package. One and one-quarter inch (1¼ inch) Condulets and larger are packed one in a unit package.

Standard Packages: Condulets of the same size and type, having one, two or three wire porcelain covers, may be assorted to make up standard package quantities.

Condulets of the same size and type, having metal covers, may be assorted to make up standard package quantities.

Condulets of the same size and type, having porcelain covers with nipples, may be assorted to make up standard package quantities.

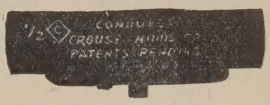
Condulets having covers for weatherproof sockets are not assorted.

CONDULETS.

STYLE "C" CONDULETS—FOR RIGID CONDUIT.

2 Wire.

W. P. Cover.



⅛-in. Male Nipple.

Code Word.	List No.	Conduit, Inches.	Porcelain. 1 Wire. Mfr. No.	Porcelain. 1 Wire. List Price.	Porcelain. 2 Wire. Mfr. No.	Porcelain. 2 Wire. List Price.	Porcelain. 3 Wire. Mfr. No.	Porcelain. 3 Wire. List Price.	Blank Metal. Mfr. No.	Blank Metal. List Price.
Zacuwom	26235	½	C11	$0.46	C12	$0.46	C13	$0.46	C10	$0.44
Zacuwon	26236	¾	C21	.56	C22	.56	C23	.56	C20	.52
Zacuwop	26237	1	C31	.84	C32	.84	C33	.84	C30	.82
Zacuwor	26238	1¼	C41	1.30	C42	1.30	C43	1.30	C40	1.26
Zacuwos	26239	1½	C51	1.70	C52	1.70	C53	1.70	C50	1.67
Zacuwot	26240	2	C61	3.03	C62	3.03	C63	3.03	C60	2.99

			Metal. ⅛-in. Male.		⅛-in. Fem.		⅜-in. Male.		⅜-in. Fem.		Porcelain. For W. P. Socket.	
Zacuwov	26241	½	C15	.56	C16	.56	C17	.61	C18	.61	C14	.52
Zacuwow	26242	¾	C25	.66	C26	.66	C27	.71	C28	.71	C24	.66
Zacuwox	26243	1	C35	.94	C36	.94	C37	.99	C38	.99	C34	.99
Zacuwoy	26244	1¼	C45	1.40	C46	1.40	C47	1.45	C48	1.45	C44	1.50
Zacuwoz	26245	1½	C55	1.80	C56	1.80	C57	1.85	C58	1.85	C54	1.95
Zacuwu	26246	2	C65	3.13	C66	3.13	C67	3.18	C68	3.18	C64	3.33

			Porcelain. ⅛-in. Male.		⅛-in. Female.		⅜-in. Male.		⅜-in. Female.	
Zacuwub	26247	½	C19	.61	C110	.61	C111	.71	C112	.71
Zacuwuc	26248	¾	C29	.71	C210	.71	C211	.82	C212	.82
Zacuwud	26249	1	C39	1.02	C310	1.02	C311	1.12	C312	1.12
Zacuwuf	26250	1¼	C49	1.52	C410	1.52	C411	1.62	C412	1.62
Zacuwug	26251	1½	C59	1.94	C510	1.94	C511	2.04	C512	2.04
Zacuwuh	26252	2	C69	3.33	C610	3.33	C611	3.43	C612	3.43

Covers of all Condulets of the same size on this page are interchangeable.

All Condulets on this page are tapped for standard pipe threads.

Unit Packages: One-half inch (½ inch) Condulets are packed ten in a unit package. Three-quarter inch (¾ inch) and one inch (1 inch) Condulets are packed five in a unit package. One and one-quarter inch (1¼ inch) Condulets and larger are packed one in a unit package.

Standard Packages: Condulets of the same size and type, having one, two or three wire porcelain covers, may be assorted to make up standard package quantities.

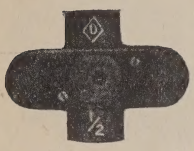
Condulets of the same size and type, having metal covers, may be assorted to make up standard package quantities.

Condulets of the same size and type, having porcelain covers with nipples, may be assorted to make up standard package quantities.

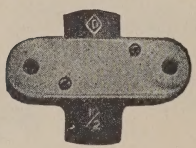
Condulets having covers for weatherproof sockets are not assorted.

CONDULETS.

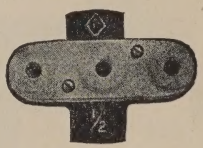
TYPE "D" CONDULETS—FOR RIGID CONDUIT.



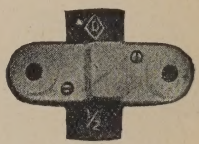
1 Wire.



2 Wire.



3 Wire.



W. P. Cover.

Code Word.	List No.	Conduit, Inches.	Porcelain. 1 Wire. Mfr. No.	Porcelain. 1 Wire. List Price.	Porcelain. 2 Wire. Mfr. No.	Porcelain. 2 Wire. List Price.	Porcelain. 3 Wire. Mfr. No.	Porcelain. 3 Wire. List Price.	Blank Metal. Mfr. No.	Blank Metal. List Price.
Zacuwuk	26253	½	D11	.44	D12	.44	D13	.44	D10	.42
Zacuwul	26254	¾	D21	.56	D22	.56	D23	.56	D20	.52
Zacuwum	26255	1	D31	.82	D32	.82	D33	.82	D30	.80
Zacuwun	26256	1¼	D41	1.30	D42	1.30	D43	1.30	D40	1.26
Zacuwup	26257	1½	D51	1.70	D52	1.70	D53	1.70	D50	1.67
Zacuwur	22258	2	D61	3.03	D62	3.03	D63	3.03	D60	2.99

			Metal. ⅛-in. Male.		Metal. ⅛-in. Fem.		Metal. ⅜-in. Male.		Metal. ⅜-in. Fem.		Porcelain. For W. P. Socket.	
Zacuwus	26259	½	D15	.54	D16	.54	D17	.59	D18	.59	D14	.50
Zacuwut	26260	¾	D25	.66	D26	.66	D27	.71	D28	.71	D24	.66
Zacuwuv	26261	1	D35	.92	D36	.92	D37	.97	D38	.97	D34	.97
Zacuwuw	26262	1¼	D45	1.40	D46	1.40	D47	1.45	D48	1.45	D44	1.50
Zacuwux	26263	1½	D55	1.80	D56	1.80	D57	1.85	D58	1.85	D54	1.95
Zacuwuy	26264	2	D65	3.13	D66	3.13	D67	3.18	D68	3.18	D64	3.33

			Porcelain. ⅛-in. Male.		Porcelain. ⅛-in. Female.		Porcelain. ⅜-in. Male.		Porcelain. ⅜-in. Female.	
Zacuwuz	26265	½	D19	.59	D110	.59	D111	.69	D112	.69
Zacuxa	26266	¾	D29	.71	D210	.71	D211	.82	D212	.82
Zacuxab	26267	1	D39	1.00	D310	1.00	D311	1.10	D312	1.10
Zacuxac	26268	1¼	D49	1.52	D410	1.52	D411	1.62	D412	1.62
Zacuxad	26269	1½	D59	1.94	D510	1.94	D511	2.04	D512	2.04
Zacuxaf	26270	2	D69	3.33	D610	3.33	D611	3.43	D612	3.43

Covers of all Condulets of the same size on this page are interchangeable.

All Condulets on this page are tapped for standard pipe threads.

Unit Packages: One-half inch (½ inch) Condulets are packed ten in a unit package. Three-quarter inch (¾ inch) and one inch (1 inch) Condulets are packed five in a unit package. One and one-quarter inch (1¼ inch) Condulets and larger are packed one in a unit package.

Standard Packages: Condulets of the same size and type, having one, two or three wire porcelain covers, may be assorted to make up standard package quantities.

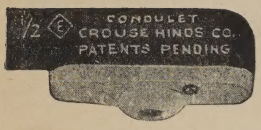
Condulets of the same size and type, having metal covers, may be assorted to make up standard package quantities.

Condulets of the same size and type, having porcelain covers with nipples, may be assorted to make up standard package quantities.

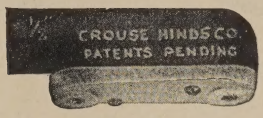
Condulets having covers for weatherproof sockets are not assorted.

CONDULETS.

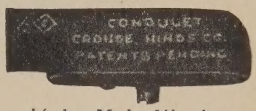
TYPE "E" CONDULETS—FOR RIGID CONDUIT.



1 Wire.



2 Wire.



⅛-in. Male Nipple.

Code Word.	List No.	Conduit, Inches.	Porcelain. 1 Wire. Mfr. No.	Porcelain. 1 Wire. List Price.	Porcelain. 2 Wire. Mfr. No.	Porcelain. 2 Wire. List Price.	Porcelain. 3 Wire. Mfr. No.	Porcelain. 3 Wire. List Price.	Blank Metal. Mfr. No.	Blank Metal. List Price.
Zacuxag	26271	½	E11	$0.39	E12	$0.39	E13	$0.39	E10	$0.37
Zacuxah	26272	¾	E21	.50	E22	.50	E23	.50	E20	.46
Zacuxak	26873	1	E31	.75	E32	.75	E33	.75	E30	.73
Zacuxal	26274	1¼	E41	1.16	E42	1.16	E43	1.16	E40	1.12
Zacuxam	26275	1½	E51	1.52	E52	1.52	E53	1.52	E50	1.49
Zacuxan	26276	2	E61	2.74	E62	2.74	E63	2.74	E60	2.70

			Metal. ⅛-in. Male.		⅛-in. Female.		⅜-in. Male.		⅜-in. Female.		Porcelain. For W. P. Socket.	
Zacuxap	26277	½	E15	.49	E16	.49	E17	.54	E18	.54	E14	.45
Zacuxar	26278	¾	E25	.60	E26	.60	E27	.65	E28	.65	E24	.60
Zacuxas	26279	1	E35	.85	E36	.85	E37	.90	E38	.90	E34	.90
Zacuxat	26280	1¼	E45	1.26	E46	1.26	E47	1.31	E48	1.31	E44	1.36
Zacuxav	26281	1½	E55	1.62	E56	1.62	E57	1.67	E58	1.67	E54	1.77
Zacuxaw	26282	2	E65	2.84	E66	2.84	E67	2.89	E68	2.89	E64	3.04

			Porcelain. ⅛-in. Male.		⅛-in. Female.		⅜-in. Male.		⅜-in. Female.	
Zacuxax	26283	½	E19	.54	E110	.54	E111	.64	E112	.64
Zacuxay	26284	¾	E29	.65	E210	.65	E211	.76	E212	.76
Zacuxaz	26285	1	E39	.93	E310	.93	E311	1.03	E312	1.03
Zacuxe	26286	1¼	E49	1.38	E410	1.38	E411	1.48	E412	1.48
Zacuxeb	26287	1½	E59	1.76	E510	1.76	E511	1.86	E512	1.86
Zacuxec	26288	2	E69	3.04	E610	3.04	E611	3.14	E612	3.14

Covers of all Condulets of the same size on this page are interchangeable.

All Condulets on this page are tapped for standard pipe threads.

Unit Packages: One-half inch (½ inch) Condulets are packed ten in a unit package. Three-quarter inch (¾ inch) and one inch (1 inch) Condulets are packed five in a unit package. One and one-quarter inch (1¼ inch) Condulets and larger are packed one in a unit package.

Standard Packages: Condulets of the same size and type, having one, two or three wire porcelain covers, may be assorted to make up standard package quantities.

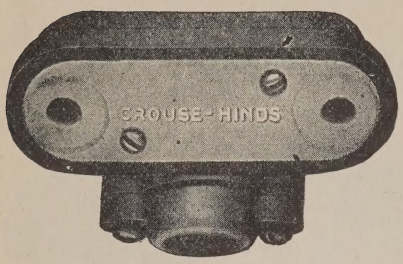
Condulets of the same size and type, having metal covers, may be assorted to make up standard package quantities.

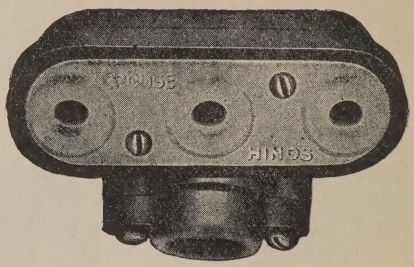
Condulets of the same size and type, having porcelain covers, with nipples, may be assorted to make up standard package quantities.

Condulets having covers for weatherproof sockets are not assorted.

CONDULETS.

TYPE F CONDULETS FOR SERVICE ENTRANCE WIRES.





TYPE F CONDULETS FOR RIGID CONDUIT.

TWO WIRE.

Size Conduit, Inches.	Code Word.	List No.	Mfr. No.	Std. Pkg.	List Price, Each.
½	Zacegef	17729	F 12	250	$0.60
¾	Zacegeg	17730	F 22	100	.80
1	Zacegeh	17731	F 32	50	1.30
1¼	Zacegek	17732	F 42	20	2.00
1½	Zacegel	17733	F 52	10	2.65
2	Zacegem	17734	F 62	5	5.85
2½	Zacegen	17735	F 72	5	12.75
3	Zacegep	17736	F 82	5	15.00

*On application.

THREE WIRE.

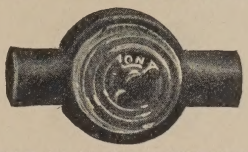
½	Zaceger	17737	F 13	250	.60
¾	Zaceges	17738	F 23	100	.80
1	Zaceget	17739	F 33	50	1.30
1¼	Zacegev	17740	F 43	20	2.00
1½	Zacegew	17741	F 53	10	2.65
2	Zacegex	17742	F 63	5	5.85
2½	Zacegey	17743	F 73	5	12.75
3	Zacegez	17744	F 83	5	15.00

*On application.

Type F Conduits may be placed in either a horizontal or vertical position. Caps of all types of Condulets of one size are interchangeable. Order by catalogue number or code word.

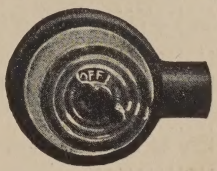
CONDULETS.

TYPE G CONDULETS FOR RIGID CONDUIT.



Code Word.	List No.	Mfr. No.		Std Pkg.	List Price, Each.
			FOR ½ INCH CONDUIT.		
Zacemik	18062	G 151	For 5 amp. Switches	200	$0.55
Zacemil	18063	G1101	For 10 amp. Switches	150	.65
Zacemim	18064	G1201	For 20 amp. Switches	100	.95
			FOR ¾ INCH CONDUIT.		
Zacemin	18065	G 252	For 5 amp. Switches	100	.65
Zacemip	18066	G2102	For 10 amp. Switches	100	.80
Zacemir	18067	G2202	For 20 amp. Switches	75	1.10
			FOR 1 INCH CONDUIT.		
Zacemis	18068	G 353	For 5 amp. Switches	50	.90
Zacemit	18069	G3103	For 10 amp. Switches	50	1.10
Zacemiv	18070	G3203	For 20 amp. Switches	50	1.45

TYPE H CONDULETS FOR RIGID CONDUIT.



			FOR ½ INCH CONDUIT.		
Zacemiw	18071	H 15	For 5 amp. Switches	200	.45
Zacemix	18072	H110	For 10 amp. Switches	150	.55
Zacemiy	18073	H120	For 20 amp. Switches	100	.75
			FOR ¾ INCH CONDUIT.		
Zacemiz	18232	H 25	For 5 amp. Switches	100	.55
Zacemo	18233	H210	For 10 amp. Switches	100	.70
Zacemob	18234	H220	For 20 amp. Switches	75	.95
			FOR 1 INCH CONDUIT.		
Zacemoc	18243	H 35	For 5 amp. Switches	50	.80
Zacemod	18244	H310	For 10 amp. Switches	50	1.00
Zacemof	18245	H320	For 20 amp. Switches	50	1.25

Prices do not include Switches.

Types "G" and "H" Condulets are arranged with adjustable plate, making it possible to mount on the same Condulet any of the different Snap Switches and fittings below specified.

5 AMP. FITTING.

Diamond "H": 220, D 220.
Hart: 20.
Perkins: 2035, 2170, 2175, 2220, 2254, 2317, 2319, 2321, 2323.

10 AMP. FITTING.

Diamond "H": 221, D 221, 222, D 222, 223, 224, 225, D 225, 501, 503, 506, 507, 508.
Hart: 21, 22, 23, 24, 25, 27, 29.
Perkins: 2009, 2010, 2036, 2037, 2038, 2058, 2059, 2139, 2140, 2141, 2142, 2171, 2173, 2174, 2176, 2177, 2178, 2181, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2216, 2221, 2226, 2234, 2236, 2238, 2240, 2263, 2264, 2275.
General Electric: S. P. Ceiling Pull Switch, 30342.

20 AMP. FITTING.

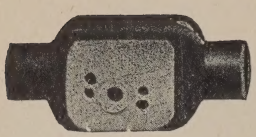
Diamond "H": 322, S. P. 20 amp., 3 way 20 amp.
Hart: 32, 33, 36.
Perkins: 2011, 2012, 2039, 2040, 2060, 2061, 2084, 2124, 2227, 2229.

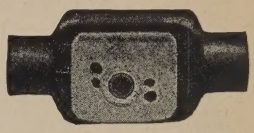
This Adjustable Plate is also arranged in a manner that allows the Snap Switch to be mounted on the Condulet with its "On" and "Off" indicator in proper position, regardless of whether the Condulet is installed in a horizontal or vertical position.

Additional Adjustable Plates are being designed for the above fittings to properly take care of Hubbell Pull Switches and General Electric Glass Enclosed Fuse Rosettes.

CONDULETS.

TYPE J CONDULETS FOR RIGID CONDUIT.





EDISON BASE CONDUIT RECEPTACLE.

Code Word.	List No.	Mfr. No.	Std Pkg.	List Price, Each. Complete With Porcelain Fitting.	Conduit Only.	Porcelain Fitting Only.
			For ½ Inch Conduit.			
Zacemog	18246	J11227	200	$1.00	$0.60	$0.40
			For ¾ Inch Conduit.			
Zacemoh	18247	J22227	100	1.15	.75	.40
			For 1 Inch Conduit.			
Zacemok	18248	J33227	50	1.45	1.05	.40

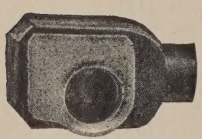
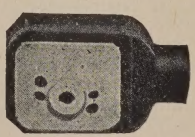
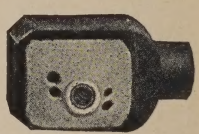
CONDUIT CORD ROSETTE.

			For ½ Inch Conduit.			
Zacemol	18249	J 1133½	200	.90	.60	.30
			For ¾ Inch Conduit.			
Zacemom	18250	J 2233½	100	1.05	.75	.30
			For 1 Inch Conduit.			
Zacemon	18251	J 3333½	50	1.35	1.05	.30

CONDUIT FIXTURE ROSETTE.

			For ½ Inch Conduit.			
Zacemop	18252	J 1133⅛	200	.95	.60	.35
			For ¾ Inch Conduit.			
Zacemor	18253	J 2233⅛	100	1.10	.75	.35
			For 1 Inch Conduit.			
Zacemos	18254	J 3333⅛	50	1.40	1.05	.35

TYPE K CONDULETS FOR RIGID CONDUIT.

EDISON BASE CONDUIT RECEPTACLE.

			For ½ Inch Conduit.			
Zacemot	18255	K 1227	200	.90	.50	.40
			For ¾ Inch Conduit.			
Zacemov	18256	K 2227	100	1.05	.65	.40
			For 1 Inch Conduit.			
Zacemow	18257	K 3227	50	1.35	.95	.40

CONDUIT CORD ROSETTE.

			For ½ Inch Conduit.			
Zacemox	18258	K 133½	200	.80	.50	.30
			For ¾ Inch Conduit.			
Zacemoy	18259	K 233½	100	.95	.65	.30
			For 1 Inch Conduit.			
Zacemoz	18260	K 333½	50	1.25	.95	.30

CONDUIT FIXTURE ROSETTE.

			For ½ Inch Conduit.			
Zacemu	18268	K 133⅛	200	.85	.50	.35
			For ¾ Inch Conduit.			
Zacemub	18269	K 233⅛	100	1.00	.65	.35
			For 1 Inch Conduit.			
Zacemuc	18270	K 333⅛	50	1.30	.95	.35

CONDULETS.

TYPE "LL" LEFT-HAND CONDULETS—FOR RIGID CONDUIT.

3/8-in. Male Nipple.

Code Word.	List No.	Outlets.	Porcelain. 1 Wire. Mfr. No.	List Price.	Porcelain. 2 Wire. Mfr. No.	List Price.	Porcelain. 3 Wire. Mfr. No.	List Price.	Blank Metal. Mfr. No.	List Price
Zacuxib	26307	½x½	L111L	$0.50	L112L	$0.50	L113L	$0.50	L110L	$0.48
Zacuxic	26308	¾x¾	L221L	.60	L222L	.60	L223L	.60	L220L	.56
Zacuxid	26309	1x1	L331L	.90	L332L	.90	L333L	.90	L330L	.88
Zacuxif	26310	1¼x1¼	L441L	1.40	L442L	1.40	L443L	1.40	L440L	1.36
Zacuxig	26311	1½x1½	L551L	1.85	L552L	1.85	L553L	1.85	L550L	1.82
Zacuxih	26312	2x2	L661L	3.25	L662L	3.25	L663L	3.25	L660L	3.21

			Metal. ⅛-in. Male.		⅛-in. Female.		⅜-in. Male.		⅜-in. Female.		Porcelain. For W. P. Socket.	
Zacuxik	26313	½x½	L115L	.60	L116L	.60	L117L	.65	L118L	.65	L114L	.56
Zacuxil	26314	¾x¾	L225L	.70	L226L	.70	L227L	.75	L228L	.75	L224L	.70
Zacuxim	26315	1x1	L335L	1.00	L336L	1.00	L337L	1.05	L338L	1.05	L334L	1.05
Zacuxin	26316	1¼x1¼	L445L	1.50	L446L	1.50	L447L	1.55	L448L	1.55	L444L	1.60
Zacuxip	26317	1½x1½	L555L	1.95	L556L	1.95	L557L	2.00	L558L	2.00	L554L	2.10
Zacuxir	26318	2x2	L665L	3.35	L666L	3.35	L667L	3.40	L668L	3.40	L664L	3.55

			Porcelain. ⅛-in. Male.		⅛-in. Female.		⅜-in. Male.		⅜-in. Female.	
Zacuxis	26319	½x½	L119L	.65	L1110L	.65	L1111L	.75	L1112L	.75
Zacuxit	26320	¾x¾	L229L	.75	L2210L	.75	L2211L	.86	L2212L	.86
Zacuxiv	26321	1x1	L339L	1.08	L3310L	1.08	L3311L	1.18	L3312L	1.18
Zacuxiw	26322	1¼x1¼	L449L	1.62	L4410L	1.62	L4411L	1.72	L4412L	1.72
Zacuxix	26323	1½x1½	L559L	2.09	L5510L	2.09	L5511L	2.19	L5512L	2.19
Zacuxiy	26324	2x2	L669L	3.55	L6610L	3.55	L6611L	3.65	L6612L	3.65

Covers of all Condulets of the same size on this page are interchangeable.

All Condulets on this page are tapped for standard pipe threads.

Unit Packages: One-half inch (½ inch) Condulets are packed ten in a unit package. Three-quarter inch (¾ inch) and one inch (1 inch) Condulets are packed five in a unit package. One and one-quarter inch (1¼ inch) Condulets and larger are packed one in a unit package.

Standard Packages: Condulets of the same size and type, having one, two or three wire porcelain covers, may be assorted to make up standard package quantities.

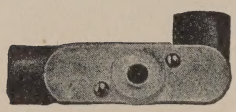
Condulets of the same size and type, having metal covers, may be assorted to make up standard package quantities.

Condulets of the same size and type, having porcelain covers, with nipples, may be assorted to make up standard package quantities.

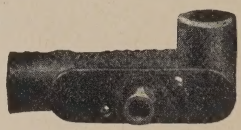
Condulets having covers for weatherproof sockets are not assorted.

CONDULETS.

TYPE "LR" RIGHT-HAND CONDULETS—FOR RIGID CONDUIT.



1 Wire.



⅜-in. Male Nipple.

Code Word.	List No.	Outlets.	Porcelain. 1 Wire. Mfr. No.	List Price.	Porcelain. 2 Wire. Mfr. No.	List Price.	Porcelain. 3 Wire. Mfr. No.	List Price.	Blank Metal. Mfr. No.	List Price.
Zacuxed	26289	½x½	L111R	$0.50	L112R	$0.50	L113R	$0.50	L110R	$0.43
Zacuxef	26290	¾x¾	L221R	.60	L222R	.60	L223R	.60	L220R	.56
Zacuxeg	26291	1x1	L331R	.90	L332R	.90	L333R	.90	L330R	.88
Zacuxeh	26292	1¼x1¼	L441R	1.40	L442R	1.40	L443R	1.40	L440R	1.36
Zacuxek	26293	1½x1½	L551R	1.85	L552R	1.85	L553R	1.85	L550R	1.32
Zacuxel	26294	2x2	L661R	3.25	L662R	3.25	L663R	3.25	L660R	3.21

			Metal. ⅛-in. Male.		⅛-in. Female.		⅜-in. Male.		⅜-in. Female.		Porcelain. For W. P. Socket.	
Zacuxem	26295	½x½	L115R	.60	L116R	.60	L117R	.65	L118R	.65	L114R	.56
Zacuxen	26296	¾x¾	L225R	.70	L226R	.70	L227R	.75	L228R	.75	L224R	.70
Zacuxep	26297	1x1	L335R	1.00	L336R	1.00	L337R	1.05	L338R	1.05	L334R	1.05
Zacuxer	26298	1¼x1¼	L445R	1.50	L446R	1.50	L447R	1.55	L448R	1.55	L444R	1.50
Zacuxes	26299	1½x1½	L555R	1.95	L556R	1.95	L557R	2.00	L558R	2.00	L554R	2.10
Zacuxet	26300	2x2	L665R	3.35	L666R	3.35	L667R	3.40	L668R	3.40	L664R	3.55

			Porcelain. ⅛-in. Male.		⅛-in. Female.		⅜-in. Male.		⅜-in. Female.	
Zacuxev	26301	½x½	L119R	.65	L1110R	.65	L1111R	.75	L1112R	.75
Zacuxew	26302	¾x¾	L229R	.75	L2210R	.75	L2211R	.86	L2212R	.86
Zacuxex	26303	1x1	L339R	1.08	L3310R	1.08	L3311R	1.18	L3312R	1.18
Zacuxey	26304	1¼x1¼	L449R	1.62	L4410R	1.62	L4411R	1.72	L4412R	1.72
Zacuxez	26305	1½x1½	L559R	2.09	L5510R	2.09	L5511R	2.19	L5512R	2.19
Zacuxi	26306	2x2	L669R	3.55	L6610R	3.55	L6611R	3.65	L6612R	3.65

Covers of all Condulets of the same size on this page are interchangeable.

All Condulets on this page are tapped for standard pipe threads.

Unit Packages: One-half inch (½ inch) Condulets are packed ten in a unit package. Three-quarter inch (¾ inch) and one inch (1 inch) Condulets are packed five in a unit package. One and one-quarter inch (1¼ inch) Condulets and larger are packed one in a unit package.

Standard Packages: Condulets of the same size and type, having one, two or three wire porcelain covers, may be assorted to make up standard package quantities.

Condulets of the same size and type, having metal covers, may be assorted to make up standard package quantities.

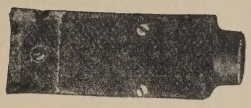
Condulets of the same size and type, having porcelain covers, with nipples, may be assorted to make up standard package quantities.

Condulets having covers for weatherproof sockets are not assorted.

CONDULETS.

FOR COMBINATION CONDUIT AND MOULDING WORK. FOR RIGID CONDUIT.

TYPE "M."



For 2 Wire Moulding.

For 3 Wire Moulding.

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price, Each.
Zadacuz	26765	M12	2 wire moulding, ½-inch conduit.....	150	$0.75
Zadada	26766	M13	3 wire moulding, ½-inch conduit.....	100	1.00

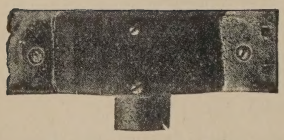
TYPE "N."

For 2 Wire Moulding.

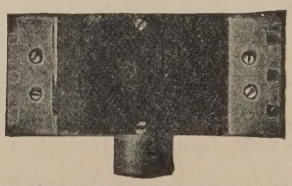
For 3 Wire Moulding.

Zadadab	26767	N12	2 Wire moulding, ½-inch conduit.....	150	.82
Zadadac	26763	N13	3 wire moulding, ½-inch conduit.....	100	1.10

TYPE "O."



For 2 Wire Moulding.

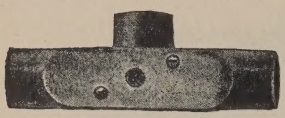


For 3 Wire Moulding.

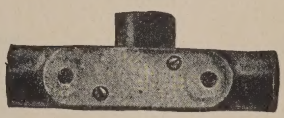
Zadadad	26769	O12	2 wire moulding, ½-inch conduit.....	150	.92
Zadadaf	26770	O13	3 wire moulding, ½-inch conduit.....	100	1.20

CONDULETS.

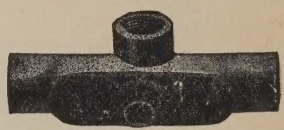
TYPE "T" CONDULETS. ½ INCH AND ¾ INCH MAINS. FOR RIGID CONDUIT.



1 Wire.



2 Wire.



⅜-in. Male Nipple.

			Porcelain. 1 Wire.		Porcelain. 2 Wire.		Porcelain. 3 Wire.		Blank Metal.	
Code Word.	List No.	Outlets.	Mfr. No.	List Price.	Mfr. No.	List Price.	Mfr. No.	List Price.	Mfr. No.	Price. List
Zacuxiz	26325	½x½x½	T1111	.58	T1112	.58	T1113	.58	T1110	.56
Zacuxo	26326	½x½x¾	T1211	.66	T1212	.66	T1213	.66	T1210	.64
Zacuxob	26327	½x½x1	T1311	.73	T1312	.73	T1313	.73	T1310	.71
Zacuxoc	26328	¾x¾x½	T2121	.72	T2122	.72	T2123	.72	T2120	.68
Zacuxod	26329	¾x¾x¾	T2221	.72	T2222	.72	T2223	.72	T2220	.68
Zacuxof	26330	¾x¾x1	T2321	.80	T2322	.80	T2323	.80	T2320	.76
Zacuxog	26331	¾x¾x1¼	T2421	.92	T2422	.92	T2423	.92	T2420	.88

			Metal. ⅛ in. Male.		⅛ in. Female.		⅜ in. Male.		⅜ in. Female.		Porcelain. For W. P. Socket.	
Zacuxoh	26332	½x½x½	T1115	.68	T1116	.68	T1117	.73	T1118	.73	T1114	.64
Zacuxok	26333	½x½x¾	T1215	.76	T1216	.76	T1217	.81	T1218	.81	T1214	.72
Zacuxol	26334	½x½x1	T1315	.83	T1316	.83	T1317	.88	T1318	.88	T1314	.79
Zacuxom	26335	¾x¾x½	T2125	.82	T2126	.82	T2127	.87	T2128	.87	T2124	.82
Zacuxon	26336	¾x¾x¾	T2225	.82	T2226	.82	T2227	.87	T2228	.87	T2224	.82
Zacuxop	26337	¾x¾x1	T2325	.90	T2326	.90	T2327	.95	T2328	.95	T2324	.90
Zacuxor	26338	¾x¾x1¼	T2425	1.02	T2426	1.02	T2427	1.07	T2428	1.07	T2424	1.02

			Porcelain. ⅛ in. Male.		⅛ in. Female.		⅜ in. Male.		⅜ in. Female.	
Zacuxos	26339	½x½x½	T1119	.73	T11110	.73	T11111	.83	T11112	.83
Zacuxot	26340	½x½x¾	T1219	.81	T12110	.81	T12111	.91	T12112	.91
Zacuxov	26341	½x½x1	T1319	.88	T13110	.88	T13111	.98	T13112	.98
Zacuxow	26342	¾x¾x½	T2129	.87	T21210	.87	T21211	.98	T21212	.98
Zacuxox	26343	¾x¾x¾	T2229	.87	T22210	.87	T22211	.98	T22212	.98
Zacuxoy	26344	¾x¾x1	T2329	.95	T23210	.95	T23211	1.06	T23212	1.06
Zacuxoz	26345	¾x¾x1¼	T2429	1.07	T24210	1.07	T24211	1.18	T24212	1.18

Covers of all Condulets having same size mains are interchangeable.
All Condulets on this page are tapped for standard pipe threads.

Unit Packages: Condulets tapped for one-half inch conduit only, are packed ten in a unit package. Condulets having their largest opening tapped for three-quarters or one inch conduit, are packed five in a unit package. Condulets tapped for one and one-quarter inch or larger conduit, are packed one in a unit package.

Standard Packages: Condulets having the same size mains, having one, two or three wire porcelain covers, may be assorted to make up standard package quantities. Condulets having the same size mains, having metal covers, may be assorted to make up standard package quantities. Condulets having the same size mains, having porcelain covers with nipples, may be assorted to make up standard quantities.

Condulets having covers for weatherproof sockets are not assorted.

CONDULETS.

TYPE "T" CONDULETS. 1 INCH AND 1¼ INCH MAINS. FOR RIGID CONDUIT.

Code Word.	List No.	Outlets.	Porcelain. Mfr. No.	Porcelain. List Price.	Porcelain. 2 Wire. Mfr. No.	Porcelain. 2 Wire. List Price.	Porcelain. 3 Wire. Mfr. No.	Porcelain. 3 Wire. List Price.	Blank Metal. Mfr. No.	Blank Metal. List Price.
Zacuxu	26346	1x1x½	T3131	1.05	T3132	1.05	T3133	1.05	T3130	1.03
Zacuxub	26347	1x1x¾	T3231	1.05	T3232	1.05	T3233	1.05	T3230	1.03
Zacuxuc	26348	1x1x1	T3331	1.05	T3332	1.05	T3333	1.05	T3330	1.03
Zacuxud	26349	1x1x1¼	T3431	1.22	T3432	1.22	T3433	1.22	T3430	1.20
Zacuxuf	26350	1x1x1½	T3531	1.40	T3532	1.40	T3533	1.40	T3530	1.38
Zacuxug	26351	1x1x2	T3631	1.70	T3632	1.70	T3633	1.70	T3630	1.68
Zacuzuh	26352	1¼x1¼x½	T4141	1.58	T4142	1.58	T4143	1.58	T4140	1.54
Zacuxuk	26353	1¼x1¼x¾	T4241	1.58	T4242	1.58	T4243	1.58	T4240	1.54
Zacuxul	26354	1¼x1¼x1	T4341	1.58	T4342	1.58	T4343	1.58	T4340	1.54
Zacuum	26355	1¼x1¼x1¼	T4441	1.58	T4442	1.58	T4443	1.58	T4440	1.54
Zacuxun	26356	1¼x1¼x1½	T4541	1.86	T4542	1.86	T4543	1.86	T4540	1.82
Zacuxup	26357	1¼x1¼x2	T4641	2.32	T4642	2.32	T4643	2.32	T4640	2.28

			Metal. ⅛ in. Male.		Metal. ⅛ in. Female.		Metal. ⅜ in. Male.		Metal. ¾ in. Female.		Porcelain. For W. P. Socket.	
Zacuxur	26358	1x1x½	T3135	1.15	T3136	1.15	T3137	1.20	T3138	1.20	T3134	1.20
Zacuxus	26359	1x1x¾	T3235	1.15	T3236	1.15	T3237	1.20	T3238	1.20	T3234	1.20
Zacuxut	26360	1x1x1	T3335	1.15	T3336	1.15	T3337	1.20	T3338	1.20	T3334	1.20
Zacuxuv	26361	1x1x1¼	T3435	1.32	T3436	1.32	T3437	1.37	T3438	1.37	T3434	1.37
Zacuxuw	26362	1x1x1½	T3535	1.50	T3536	1.50	T3537	1.55	T3538	1.55	T3534	1.55
Zacuxux	26363	1x1x2	T3635	1.80	T3636	1.80	T3637	1.85	T3638	1.85	T3634	1.85
Zacuxuy	26364	1¼x1¼x½	T4145	1.68	T4146	1.68	T4147	1.73	T4148	1.73	T4144	1.78
Zacuxuz	26365	1¼x1¼x¾	T4245	1.68	T4246	1.68	T4247	1.73	T4248	1.73	T4244	1.78
Zacuya	26366	1¼x1¼x1	T4345	1.68	T4346	1.68	T4347	1.73	T4348	1.73	T4344	1.78
Zacuyab	26367	1¼x1¼x1¼	T4445	1.68	T4446	1.68	T4447	1.73	T4448	1.73	T4444	1.78
Zacuyac	26368	1¼x1¼x1½	T4545	1.96	T4546	1.96	T4547	2.01	T4548	2.01	T4544	2.06
Zacuyad	26369	1¼x1¼x2	T4645	2.42	T4646	2.42	T4647	2.47	T4648	2.47	T4644	2.52

			Porcelain. ⅛ in. Male.		Porcelain. ⅛ in. Female.		Porcelain. ⅜ in. Male.		Porcelain. ⅜ in. Female.	
Zacuyaf	26370	1x1x½	T3139	1.23	T31310	1.23	T31311	1.33	T31312	1.33
Zacuyag	26371	1x1x¾	T3239	1.23	T32310	1.23	T32311	1.33	T32312	1.33
Zacuyah	26372	1x1x1	T3339	1.23	T33310	1.23	T33311	1.33	T33312	1.33
Zacuyak	26373	1x1x1¼	T3439	1.40	T34310	1.40	T34311	1.50	T34312	1.50
Zacuyal	26374	1x1x1½	T3539	1.58	T35310	1.58	T35311	1.68	T35312	1.68
Zacuyam	26375	1x1x2	T3639	1.88	T36310	1.88	T36311	1.98	T36312	1.98
Zacuyan	26376	1¼x1¼x½	T4149	1.80	T41410	1.80	T41411	1.90	T41412	1.90
Zacuyap	26377	1¼x1¼x¾	T4249	1.80	T42410	1.80	T42411	1.90	T42412	1.90
Zacuyar	26378	1¼x1¼x1	T4349	1.80	T43410	1.80	T43411	1.90	T43412	1.90
Zacuyas	26379	1¼x1¼x1¼	T4449	1.80	T44410	1.80	T44411	1.90	T44412	1.90
Zacuyat	26380	1¼x1¼x1½	T4549	2.08	T45410	2.08	T45411	2.18	T45412	2.18
Zacuyav	26381	1¼x1¼x2	T4649	2.54	T46410	2.54	T46411	2.64	T46412	2.64

Covers of all Condulets having same size mains are interchangeable.
All Condulets on this page are tapped for standard pipe threads.

Unit Packages: Condulets with their largest opening tapped for one inch conduit are packed five in a unit package. All others are packed one in a unit package.

Standard Packages: Condulets having the same size mains, having one, two or three wire porcelain covers, may be assorted to make up standard package quantities. Condulets having the same size mains, having metal covers, may be assorted to make up standard package quantities. Condulets having the same size mains, having porcelain covers with nipples, may be assorted to make up standard package quantities.
Condulets having covers for weatherproof sockets are not assorted.

CONDULETS.

TYPE "T" CONDULETS. 1½ INCH AND 2 INCH MAINS. FOR RIGID COVERS.

Code Word.	List No.	Outlets.	Porcelain. 1 Wire. Mfr. No.	List Price.	Porcelain. 2 Wire. Mfr. No.	List Price.	Porcelain. 3 Wire. Mfr. No.	List Price.	Blank Metal. Mfr. No.	List Price.
Zacuyaw	26382	1½x1½x½	T5151	$2.17	T5152	$2.17	T5153	$2.17	T5150	$2.14
Zacuyax	26383	1½x1½x¾	T5251	2.17	T5252	2.17	T5253	2.17	T5250	2.14
Zacuyay	26384	1½x1½x1	T5351	2.17	T5352	2.17	T5353	2.17	T5350	2.14
Zacuyaz	26385	1½x1½x1¼	T5451	2.17	T5452	2.17	T5453	2.17	T5450	2.14
Zacuye	26386	1½x1½x1½	T5551	2.17	T5552	2.17	T5553	2.17	T5550	2.14
Zacuyeb	26387	1½x1½x2	T5651	3.00	T5652	3.00	T5653	3.00	T5650	2.97
Zacuyec	26388	2x2x½	T6161	3.15	T6162	3.15	T6163	3.15	T6160	3.11
Zacuyed	26389	2x2x¾	T6261	3.15	T6262	3.15	T6263	3.15	T6260	3.11
Zacuyef	26390	2x2x1	T6361	3.15	T6362	3.15	T6363	3.15	T6360	3.11
Zacuyeg	26391	2x2x1¼	T6461	3.15	T6462	3.15	T6463	3.15	T6460	3.11
Zacuyeh	26392	2x2x1½	T6561	3.15	T6562	3.15	T6563	3.15	T6560	3.11
Zacuyek	26393	2x2x2	T6661	3.15	T6662	3.15	T6663	3.15	T6660	3.11

			Metal. ⅛ in. Male.		⅛ in. Female.		⅜ in. Male.		⅜ in. Female.		Porcelain. For W. P. Socket.	
Zacuyel	26394	1½x1½x½	T5155	$2.27	T5156	$2.27	T5157	$2.32	T5158	$2.32	T5154	$2.42
Zacuyem	26395	1½x1½x¾	T5255	2.27	T5256	2.27	T5257	2.32	T5258	2.32	T5254	2.42
Zacuyen	26396	1½x1½x1	T5355	2.27	T5356	2.27	T5357	2.32	T5358	2.32	T5354	2.42
Zacuyep	26397	1½x1½x1¼	T5455	2.27	T5456	2.27	T5457	2.32	T5458	2.32	T5454	2.42
Zacuyer	26398	1½x1½x1½	T5555	2.27	T5556	2.27	T5557	2.32	T5558	2.32	T5554	2.42
Zacuyes	26399	1½x1½x2	T5655	3.10	T5656	3.10	T5657	3.15	T5658	3.15	T5654	3.25
Zacuyet	26400	2x2x½	T6165	3.25	T6166	3.25	T6167	3.30	T6168	3.30	T6164	3.45
Zacuyev	26401	2x2x¾	T6265	3.25	T6266	3.25	T6267	3.30	T6268	3.30	T6264	3.45
Zacuyew	26402	2x2x1	T6365	3.25	T6366	3.25	T6367	3.30	T6368	3.30	T6364	3.45
Zacuyex	26403	2x2x1¼	T6465	3.25	T6466	3.25	T6467	3.30	T6468	3.30	T6464	3.45
Zacuyey	26404	2x2x1½	T6565	3.25	T6566	3.25	T6567	3.30	T6568	3.30	T6564	3.45
Zacuyez	26405	2x2x2	T6665	3.25	T6666	3.25	T6667	3.30	T6668	3.30	T6664	3.45

			Porcelain. ⅛ in. Male.		⅛ in. Female.		⅜ in. Male.		⅜ in. Female.	
Zacuyi	26406	1½x1½x½	T5159	2.41	T51510	2.41	T51511	2.51	T51512	2.51
Zacuyib	26407	1½x1½x¾	T5259	2.41	T52510	2.41	T52511	2.51	T52512	2.51
Zacuyic	26408	1½x1½x1	T5359	2.41	T53510	2.41	T53511	2.51	T53512	2.51
Zacuyid	26409	1½x1½x1¼	T5459	2.41	T54510	2.41	T54511	2.51	T54512	2.51
Zacuyif	26410	1½x1½x1½	T5559	2.41	T55510	2.41	T55511	2.51	T55512	2.51
Zacuyig	26411	1½x1½x2	T5659	3.24	T56510	3.24	T56511	3.34	T56512	3.34
Zacuyih	26412	2x2x½	T6169	3.45	T61610	3.45	T61611	3.55	T61612	3.55
Zacuyik	26413	2x2x¾	T6269	3.45	T62610	3.45	T62611	3.55	T62612	3.55
Zacuyil	26414	2x2x1	T6369	3.45	T63610	3.45	T63611	3.55	T63612	3.55
Zacuyim	26415	2x2x1¼	T6469	3.45	T64610	3.45	T64611	3.55	T64612	3.55
Zacuyin	26416	2x2x1½	T6569	3.45	T65610	3.45	T65611	3.55	T65612	3.55
Zacuyip	26417	2x2x2	T6669	3.45	T66610	3.45	T66611	3.55	T66612	3.55

Covers for all Condulets on this page having the same size mains are interchangeable. All Condulets on this page are tapped for standard pipe threads.

Unit Packages: All Condulets on this page are packed one in a unit package.

Standard Packages: Condulets having the same size mains, having one, two or three wire porcelain covers, may be assorted to make up standard package quantities. Condulets having the same size mains, having metal covers, may be assorted to make up standard package quantities. Condulets having the same size mains, having porcelain covers with nipples, may be assorted to make up standard package quantities.

Condulets having covers for weatherproof sockets are not assorted.

CONDULETS.

TYPE "TL," LEFT HAND CONDULETS—FOR RIGID CONDUIT. ½, ¾ and 1 INCH MAINS.

Code Word.	List No.	Outlets.	Porcelain. 1 Wire. Mfr. No.	Porcelain. 1 Wire. List Price.	Porcelain. 2 Wire. Mfr. No.	Porcelain. 2 Wire. List Price.	Porcelain. 3 Wire. Mfr. No.	Porcelain. 3 Wire. List Price.	Blank Metal. Mfr. No.	Blank Metal. List Price.
Zadamip	27418	½x ½x ½	T1111L	$0.58	T1112L	$0.58	T1113D	$0.58	T1110L	$0.56
Zadamir	27419	½x ½x ¾	T1211L	.66	T1212L	.66	T1213L	.66	T1210L	.64
Zadamis	27420	½x ½x1	T1311L	.73	T1312L	.73	T1313L	.73	T1310L	.71
Zadamit	27421	¾x ¾x ½	T2121L	.72	T2122L	.72	T2123L	.72	T2120L	.68
Zadamiv	27422	¾x ¾x ¾	T2221L	.72	T2222L	.72	T2223L	.72	T2220L	.68
Zadamiw	27423	¾x ¾x1	T2321L	.80	T2322L	.80	T2323L	.80	T2320L	.76
Zadamix	27424	1 x1 x ½	T3131L	1.05	T3132L	1.05	T3133L	1.05	T3130L	1.03
Zadamiy	27425	1 x1 x ¾	T3231L	1.05	T3232L	1.05	T3233L	1.05	T3230L	1.03
Zadamiz	27426	1 x1 x1	T3331L	1.05	T3332L	1.05	T3333L	1.05	T3330L	1.03

			Metal. ⅛ in. Male.	Metal. ⅛ in. Female.	Metal. ⅜ in. Male.	Metal. ⅜ in. Female.	Porcelain. For W P. Sockets.
Zadamo	27427	½x½x½	T1115L .68	T1116L .68	T1117L .73	T1118L .73	T1114L .64
Zadamob	27428	½x½x¾	T1215L .76	T1216L .76	T1217L .81	T1218L .81	T1214L .72
Zadamoc	27429	½x½x1	T1315L .83	T1316L .83	T1317L .88	T1318L .88	T1314L .79
Zadamod	27430	¾x¾x½	T2125L .82	T2126L .82	T2127L .87	T2128L .87	T2124L .82
Zadamof	27431	¾x¾x¾	T2225L .82	T2226L .82	T2227L .87	T2228L .87	T2224L .82
Zadamog	27432	¾x¾x1	T2325L .90	T2326L .90	T2327L .95	T2328L .95	T2324L .90
Zadamoh	27433	1x1x½	T3135L 1.15	T3136L 1.15	T3137L 1.20	T3138L 1.20	T3134L 1.20
Zadamok	27434	1x1x¾	T3235L 1.15	T3236L 1.15	T3237L 1.20	T3238L 1.20	T3234L 1.20
Zadamol	27435	1x1x1	T3335L 1.15	T3336L 1.15	T3337L 1.20	T3338L 1.20	T3334L 1.20

			Porcelain. ⅛ in. Male.	Porcelain. ⅛ in. Female.	Porcelain. ⅜ in. Male.	Porcelain. ⅜ in. Female.
Zadamom	27436	½x ½x ½	T1119L .73	T11110L .73	T11111L .83	T11112L .83
Zadamon	27437	½x ½x ¾	T1219L .81	T12110L .81	T12111L .91	T12112L .91
Zadamop	27438	½x ½x1	T1319L .88	T13110L .88	T13111L .98	T13112L .98
Zadamor	27439	¾x ¾x ½	T2129L .87	T21210L .87	T21211L .98	T21212L .98
Zadamos	27440	¾x ¾x ¾	T2229L .87	T22210L .87	T22211L .98	T22212L .98
Zadamot	27441	¾x ¾x1	T2329L .95	T23210L .95	T23211L 1.06	T23212L 1.06
Zadamov	27442	1 x1 x ½	T3139L 1.23	T31310L 1.23	T31311L 1.33	T31312L 1.33
Zadamow	27443	1 x1 x ¾	T3239L 1.23	T32310L 1.23	T32311L 1.33	T32312L 1.33
Zadamox	27444	1 x1 x1	T3339L 1.23	T33310L 1.23	T33311L 1.33	T33312L 1.33

Covers of all Condulets having same size mains are interchangeable.

All Condulets on this page are tapped for standard pipe threads.

Unit Packages: One-half inch (½ inch) Condulets are packed ten in a unit package. Three-quarter inch (¾ inch) and one inch Condulets are packed five in a unit package.

Standard Packages: Condulets of the same size and type, having one, two or three wire porcelain covers, may be assorted to make up standard package quantities.

Condulets of the same size and type, having metal covers, may be assorted to make up standard package quantities.

Condulets of the same size and type, having porcelain covers with nipples, may be assorted to make up standard package quantities.

Condulets having covers for weatherproof sockets are not assorted.

CONDULETS.

TYPE "TR," RIGHT HAND CONDULETS—FOR RIGID CONDUIT. ½, ¾ AND 1 INCH MAINS.

Code Word.	List No.	Outlets.	Porcelain. 1 Wire. Mfr. No.	Porcelain. 1 Wire. List Price.	Porcelain. 2 Wire. Mfr. No.	Porcelain. 2 Wire. List Price.	Porcelain. 3 Wire. Mfr. No.	Porcelain. 3 Wire. List Price.	Blank Metal. Mfr. No.	Blank Metal. List Price.
Zadamef	27391	½x ½x ½	T1111R	$0.58	T1112R	$0.58	T1113B	$0.58	T1110R	$0.56
Zadameg	27392	½x ½x ¾	T1211R	.66	T1212R	.66	T1213R	.66	T1210R	.64
Zadameh	27393	½x ½x1	T1311R	.73	T1312R	.73	T1313R	.73	T1310R	.71
Zadamek	27394	¾x ¾x ½	T2121R	.72	T2122R	.72	T2123R	.72	T2120R	.68
Zadamel	27395	¾x ¾x ¾	T2221R	.72	T2222R	.72	T2223R	.72	T2220R	.68
Zadamem	27396	¾x ¾x1	T2321R	.80	T2322R	.80	T2323R	.80	T2320R	.76
Zadamen	27397	1 x1 x ½	T3131R	1.05	T3132R	1.05	T3133R	1.05	T3130R	1.03
Zadamep	27398	1 x1 x ¾	T3231R	1.05	T3232R	1.05	T3233R	1.05	T3230R	1.03
Zadamer	27399	1 x1 x1	T3331R	1.05	T3332R	1.05	T3333R	1.05	T3330R	1.03

			Metal. ⅛ in. Male.		⅛ in. Female.		⅜ in. Male.		⅜ in. Female.		Porcelain. For W P. Sockets.	
Zadames	27400	½x½x½	T1115R	.68	T1116R	.68	T1117R	.73	T1118R	.73	T1114R	.64
Zadamet	27401	½x½x¾	T1215R	.76	T1216R	.76	T1217R	.81	T1218R	.81	T1214R	.72
Zadamev	27402	½x½x1	T1315R	.83	T1316R	.83	T1317R	.88	T1318R	.88	T1314R	.79
Zadamew	27403	¾x¾x½	T2125R	.82	T2126R	.82	T2127R	.87	T2128R	.87	T2124R	.82
Zadamex	27404	¾x¾x¾	T2225R	.82	T2226R	.82	T2227R	.87	T2228R	.87	T2224R	.82
Zadamey	27405	¾x¾x1	T2325R	.90	T2326R	.90	T2327R	.95	T2328R	.95	T2324R	.90
Zadamez	27406	1x1x½	T3135R	1.15	T3136R	1.15	T3137R	1.20	T3138R	1.20	T3134R	1.20
Zadami	27407	1x1x¾	T3235R	1.15	T3236R	1.15	T3237R	1.20	T3238R	1.20	T3234R	1.20
Zadamib	27408	1x1x1	T3235R	1.15	T3336R	1.15	T3337R	1.20	T3338R	1.20	T3334R	1.20

			Porcelain. ⅛ in. Male.		⅛ in. Female.		⅜ in. Male.		⅜ in. Female.	
Zadamic	27409	½x ½x ½	T1119R	.73	T11110R	.73	T11111R	.83	T11112R	.83
Zadamid	27410	½x ½x ¾	T1219R	.81	T12110R	.81	T12111R	.91	T12112R	.91
Zadamif	27411	½x ½x1	T1319R	.88	T13110R	.88	T13111R	.98	T13112R	.98
Zadamig	27412	¾x ¾x ½	T2129R	.87	T21210R	.87	T21211R	.98	T21212R	.98
Zadamih	27413	¾x ¾x ¾	T2229R	.87	T22210R	.87	T22211R	.98	T22212R	.98
Zadamik	27414	¾x ¾x1	T2329R	.95	T23210R	.95	T23211R	1.06	T23212R	1.06
Zadamil	27415	1 x1 x ½	T3139R	1.23	T31310R	1.23	T31311R	1.33	T31312R	1.33
Zadamim	27416	1 x1 x ¾	T3239R	1.23	T32310R	1.23	T32311R	1.33	T32312R	1.33
Zadamin	27417	1 x1 x1	T3339R	1.23	T33310R	1.23	T33311R	1.33	T33312R	1.33

Covers of all Condulets having the same size mains are interchangeable.

All Condulets on this page are tapped for standard pipe threads.

Unit Packages: One-half inch (½ inch) Condulets are packed ten in a unit package. Three-quarter inch (¾ inch) and one inch Condulets are packed five in a unit package.

Standard Packages: Condulets of the same size and type, having one, two or three wire porcelain covers, may be assorted to make up standard package quantities.

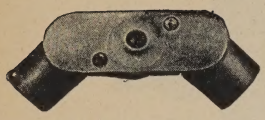
Condulets of the same size and type, having metal covers, may be assorted to make up standard package quantities.

Condulets of the same size and type, having porcelain covers with nipples, may be assorted to make up standard package quantities.

Condulets having covers for weatherproof sockets are not assorted.

CONDULETS.

TYPE "U" CONDULETS—FOR RIGID CONDUIT.



1 Wire.

Blank Metal.

⅜-in. Male Nipple.

Code Word.	List No.	Outlets.	Porcelain. 1 Wire. Mfr. No.	Porcelain. 1 Wire. List Price.	Porcelain. 2 Wire. Mfr. No.	Porcelain. 2 Wire. List Price.	Porcelain. 3 Wire. Mfr. No.	Porcelain. 3 Wire. List Price.	Blank Metal. Mfr. No.	Blank Metal. List Price.
Zacuyir	26418	½x½	U111	$0.62	U112	$0.62	U113	$0.62	U110	$0.60
Zacuyis	26419	¾x¾	U221	.72	U222	.72	U223	.72	U220	.68
Zacuyit	26420	1x1	U331	1.10	U332	1.10	U333	1.10	U330	1.08
Zacuyiv	26421	1¼x1¼	U441	1.55	U442	1.55	U443	1.55	U440	1.51
Zacuyiw	26422	1½x1½	U551	2.00	U552	2.00	U553	2.00	U550	1.97
Zacuyix	26423	2x2	U661	3.50	U662	3.50	U663	3.50	U660	3.46

			Metal. ¼-in. Male.		Metal. ⅛-in. Female.		Metal. ⅜-in. Male.		Metal. ⅜-in. Female.		Porcelain. For W. P. Socket.	
Zacuyiy	26424	½x½	U115	.72	U116	.72	U117	.77	U118	.77	U114	.68
Zacuyiz	26425	¾x¾	U225	.82	U226	.82	U227	.87	U228	.87	U224	.82
Zacuyo	26426	1x1	U335	1.20	U336	1.20	U337	1.25	U238	1.25	U334	1.25
Zacuyob	26427	1¼x1¼	U445	1.65	U446	1.65	U447	1.70	U448	1.70	U444	1.75
Zacuyoc	26428	1½x1½	U555	2.10	U556	2.10	U557	2.15	U558	2.15	U554	2.25
Zacuyod	26429	2x2	U665	3.60	U666	3.60	U667	3.65	U668	3.65	U664	3.80

			Porcelain. ⅛-in. Male.		Porcelain. ⅛-in. Female.		Porcelain. ⅜-in. Male.		Porcelain. ⅜-in. Female.	
Zacuyof	26430	½x½	U119	.77	U1110	.77	U1111	.87	U1112	.87
Zacuyog	26431	¾x¾	U229	.87	U2210	.87	U2211	.98	U2212	.98
Zacuyoh	26432	1x1	U339	1.28	U3310	1.28	U3311	1.38	U3312	1.38
Zacuyok	26433	1¼x1¼	U449	1.77	U4410	1.77	U4411	1.87	U4412	1.87
Zacuyol	26434	1½x1½	U559	2.24	U5510	2.24	U5511	2.34	U5512	2.34
Zacuyom	26435	2x2	U660	3.80	U6610	3.80	U6611	3.90	U6612	3.90

Covers of all condulets of the same size on this page are interchangeable.

All Condulets on this page are tapped for standard pipe threads.

Unit Packages: One-half inch (½ inch) Condulets are packed ten in a unit package. Three-quarter inch (¾ inch) and one inch Condulets are packed five in a unit package. One and one-quarter inch (1¼ inch) Condulets and larger are packed one in a unit package.

Standard Packages: Condulets of the same size and type, having one, two or three wire porcelain covers, may be assorted to make up standard package quantities.

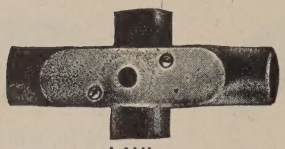
Condulets of the same size and type, having metal covers, may be assorted to make up standard package quantities.

Condulets of the same size and type, having porcelain covers with nipples, may be assorted to make up standard package quantities.

Condulets having covers for weatherproof sockets are not assorted.

CONDULETS.

TYPE "X" CONDULETS—FOR RIGID CONDUIT.



1 Wire.

⅜-in. Male Nipple.

Code Word.	List No.	Outlets.	Porcelain. 1 Wire. Mfr. No.	Porcelain. 1 Wire. List Price.	Porcelain. 2 Wire. Mfr. No.	Porcelain. 2 Wire. List Price.	Porcelain. 3 Wire. Mfr. No.	Porcelain. 3 Wire. List Price.	Blank Metal. Mfr. No.	Blank Metal. List Price.
Zacuyon	26436	½x½x½x½	X11111	$0.70	X11112	$0.70	X11113	$0.70	X11110	$0.68
Zacuyop	26437	¾x½x½x½	X21111	.92	X21112	.92	X21113	.92	X21110	.88
Zacuyor	26438	¾x½x¾x½	X21121	.92	X21122	.92	X21123	.92	X21120	.88
Zacuyos	26439	¾x¾x¾x¾	X22221	.92	X22222	.92	X22223	.92	X22220	.88
Zacuyot	26440	1x½x¾x½	X31121	1.30	X31122	1.30	X31123	1.30	X31120	1.28
Zacuyov	26441	1x¾x¾x¾	X32221	1.30	X32222	1.30	X32223	1.30	X32220	1.28
Zacuyow	26442	1x½x1x½	X31131	1.30	X31132	1.30	X31133	1.30	X31130	1.28
Zacuyox	26443	1x¾x1x¾	X32231	1.30	X32232	1.30	X32233	1.30	X32230	1.28
Zacuyoy	26444	1¼x½x1x½	X41131	1.60	X41132	1.60	X41133	1.60	X41130	1.56
Zacuyoz	26445	1¼x¾x1x¾	X42231	1.60	X42232	1.60	X42233	1.60	X42230	1.56
Zacuyu	26446	1¼x½x1¼x½	X41141	1.60	X41142	1.60	X41143	1.60	X41140	1.56
Zacuyub	26447	1¼x¾x1¼x¾	X42241	1.60	X42242	1.60	X42243	1.60	X42240	1.56

			Metal. ⅛-in. Male.		Metal. ⅛-in. Female.		Metal. ⅜-in. Male.		Metal. ⅜-in. Female.		Porcelain. For W. P. Sockets.	
Zacuyuc	26448	½x½x½x½	X11115	.80	X11116	.80	X11117	.85	X11118	.85	X11114	.76
Zacuyud	26449	¾x½x½x½	X21115	1.02	X21116	1.02	X21117	1.07	X21118	1.07	X21114	1.02
Zacuyuf	26450	¾x½x¾x½	X21125	1.02	X21126	1.02	X21127	1.07	X21128	1.07	X21124	1.02
Zacuyug	26451	¾x¾x¾x¾	X22225	1.02	X22226	1.02	X22227	1.07	X22228	1.07	X22224	1.02
Zacuyuh	26452	1x½x¾x½	X31125	1.40	X31126	1.40	X31127	1.45	X31128	1.45	X31124	1.45
Zacuyuk	26453	1x¾x¾x¾	X32225	1.40	X32226	1.40	X32227	1.45	X32228	1.45	X32224	1.45
Zacuyul	26454	1x½x1x½	X31135	1.40	X31136	1.40	X31137	1.45	X31138	1.45	X31134	1.45
Zacuyum	26455	1x¾x1x¾	X32235	1.40	X32236	1.40	X32237	1.45	X32238	1.45	X32234	1.45
Zacuyun	26456	1¼x½x1x½	X41135	1.70	X41136	1.70	X41137	1.75	X41138	1.75	X41134	1.80
Zacuyup	26457	1¼x¾x1x¾	X42235	1.70	X42236	1.70	X42237	1.75	X42238	1.75	X42234	1.80
Zacuyur	26458	1¼x½x1¼x½	X41145	1.70	X41146	1.70	X41147	1.75	X41148	1.75	X41144	1.80
Zacuyus	26459	1¼x¾x1¼x¾	X42245	1.70	X42246	1.70	X42247	1.75	X42248	1.75	X42244	1.80

			Porcelain. ⅛-in. Male.		Porcelain. ⅛-in. Female.		Porcelain. ⅜-in. Male.		Porcelain. ⅜-in. Female.	
Zacuyut	26460	½x½x½x½	X11119	.85	X111110	.85	X111111	.95	X111112	.95
Zacuyuv	26461	¾x½x½x½	X21119	1.07	X211110	1.07	X211111	1.18	X211112	1.18
Zacuyuw	26462	¾x½x¾x½	X21129	1.07	X211210	1.07	X211211	1.18	X211212	1.18
Zacuyux	26463	¾x¾x¾x¾	X22229	1.07	X222210	1.07	X222211	1.18	X222212	1.18
Zacuyuy	26464	1x½x¾x½	X31129	1.48	X311210	1.48	X311211	1.58	X311212	1.58
Zacuyuz	26465	1x¾x¾x¾	X32229	1.48	X322210	1.48	X322211	1.58	X322212	1.58
Zacuza	26466	1x½x1x½	X31139	1.48	X311310	1.48	X311311	1.58	X311312	1.58
Zacuzab	26467	1x¾x1x¾	X32239	1.48	X322310	1.48	X322311	1.58	X322312	1.58
Zacuzac	26468	1¼x½x1x½	X41139	1.82	X411310	1.82	X411311	1.92	X411312	1.92
Zacuzad	26469	1¼x¾x1x¾	X42239	1.82	X422310	1.82	X422311	1.92	X422312	1.92
Zacuzaf	26470	1¼x½x1¼x½	X41149	1.82	X411410	1.82	X411411	1.92	X411412	1.92
Zacuzag	26471	1¼x¾x1¼x¾	X42249	1.82	X422410	1.82	X424411	1.92	X424412	1.92

Covers of all Condulets on this page, having the same size mains, are interchangeable. All Condulets on this page are tapped for standard pipe threads.

Unit Packages: Condulets tapped for one-half inch conduit only are packed ten in a unit package. Condulets having their largest opening tapped for three-quarters or one inch conduit are packed five in a unit package. Condulets tapped for one and one-quarter inch or larger conduit are packed one in a unit package.

Standard Packages: Condulets having the same size mains, having one, two or three wire porcelain covers, may be assorted to make up standard package quantities. Condulets having the same size mains, having metal covers, may be assorted to make up standard package quantities. Condulets having the same size mains, having porcelain covers with nipples, may be assorted to make up standard package quantities.

Condulets having covers for weatherproof sockets are not assorted.

CONDULETS.

TYPE "X" CONDULETS—FOR RIGID CONDUIT.

Code Word.	List No.	Outlets.	Porcelain. 1 Wire. Mfr. No.	List Price.	Porcelain. 2 Wire. Mfr. No.	List Price.	Porcelain. 3 Wire. Mfr. No.	List Price.	Blank Metal. Mfr. No.	List Price.
Zacuzah	26472	1½x½x1¼x½	X51141	2.26	X51142	2.26	X51143	2.26	X51140	2.23
Zacuzak	26473	1½x¾x1¼x¾	X52241	2.26	X52242	2.26	X52243	2.26	X52240	2.23
Zacuzal	26474	1½x¾x1½x¾	X52251	2.26	X52252	2.26	X52253	2.26	X52250	2.23
Zacuzam	26475	1½x1x1¼x1	X53341	2.26	X53342	2.26	X53343	2.26	X53340	2.23
Zacuzan	26476	1½x1x1½x1	X53351	2.26	X53352	2.26	X53353	2.26	X53350	2.23
Zacuzap	26477	2x½x1½x½	X61151	3.45	X61152	3.45	X61153	3.45	X61150	3.41
Zacuzar	26478	2x¾x1½x¾	X62251	3.45	X62252	3.45	X62253	3.45	X62250	3.41
Zacuzas	26479	2x1x1½x1	X63351	3.45	X63352	3.45	X63353	3.45	X63350	3.41
Zacuzat	26480	2x1x2x1	X63361	3.45	X63362	3.45	X63363	3.45	X63360	3.41

Code Word.	List No.	Outlets.	Metal. ⅛-in. Male.		Metal. ⅛-in. Female.		Metal. ⅜-in. Male.		Metal. ⅜-in. Female.		Porcelain. For W. P. Socket.	
Zacuzav	26481	1½x½x1¼x½	X51145	2.36	X51146	2.36	X51147	2.41	X51148	2.41	X51144	2.51
Zacuzaw	26482	1½x¾x1¼x¾	X52245	2.36	X52246	2.36	X52247	2.41	X52248	2.41	X52244	2.51
Zacuzax	26483	1½x¾x1½x¾	X52255	2.36	X52256	2.36	X52257	2.41	X52258	2.41	X52254	2.51
Zacuzay	26484	1½x1x1¼x1	X53345	2.36	X53346	2.36	X53347	2.41	X53348	2.41	X53344	2.51
Zacuzaz	26485	1½x1x1½x1	X53355	2.36	X53356	2.36	X53357	2.41	X53358	2.41	X53354	2.51
Zacuze	26486	2x½x1½x½	X61155	3.55	X61156	3.55	X61157	3.60	X61158	3.60	X61154	3.75
Zacuzeb	26487	2x¾x1½x¾	X62255	3.55	X62256	3.55	X62257	3.60	X62258	3.60	X62254	3.75
Zacuzec	26488	2x1x1½x1	X63355	3.55	X63356	3.55	X63357	3.60	X63358	3.60	X63354	3.75
Zacuzed	26489	2x1x2x1	X63365	3.55	X63366	3.55	X63367	3.60	X63368	3.60	X63364	3.75

Code Word.	List No.	Outlets.	Porcelain. ⅛-in. Male.		Porcelain. ⅛-in. Female.		Porcelain. ⅜-in. Male.		Porcelain. ⅜-in. Female.	
Zacuzef	26490	1½x½x1¼x½	X51149	2.50	X511410	2.50	X511411	2.60	X511412	2.60
Zacuzeg	26491	1½x¾x1¼x¾	X52249	2.50	X522410	2.50	X522411	2.60	X522412	2.60
Zacuzeh	26492	1½x¾x1½x¾	X52259	2.50	X522510	2.50	X522511	2.60	X522512	2.60
Zacuzek	26493	1½x1x1¼x1	X53349	2.50	X533410	2.50	X533411	2.60	X533412	2.60
Zacuzel	26494	1½x1x1½x1	X53359	2.50	X533510	2.50	X533511	2.60	X533512	2.60
Zacuzem	26495	2x½x1½x½	X61159	3.75	X611510	3.75	X611511	3.85	X611512	3.85
Zacuzen	26496	2x¾x1½x¾	X62259	3.75	X622510	3.75	X622511	3.85	X622512	3.85
Zacuzep	26497	2x1x1½x1	X63359	3.75	X633510	3.75	X633511	3.85	X633512	3.85
Zacuzer	26498	2x1x2x1	X63369	3.75	X633610	3.75	X633611	3.85	X633612	3.85

Covers of all Condulets having same size mains are interchangeable.

All Condulets on this page are tapped for standard pipe threads.

Unit Packages: Condulets listed on this page are packed one in a unit package.

Standard Packages: Condulets having the same size mains, having one, two or three wire porcelain covers, may be assorted to make up standard package quantities. Condulets having the same size mains, having metal covers, may be assorted to make up standard package quantities. Condulets having the same size mains, having porcelain covers with nipples, may be assorted to make up standard package quantities.

Condulets having covers for weatherproof sockets are not assorted.

CONDULET COVERS.

Code Word.	List No.	Size of Conduit, Inches.	Porcelain. 1 Wire. Mfr. No.	Porcelain. 1 Wire. List Price.	Porcelain. 2 Wire. Mfr. No.	Porcelain. 2 Wire. List Price.	Porcelain. 3 Wire. Mfr. No.	Porcelain. 3 Wire. List Price.	Blank Metal. Mfr. No.	Blank Metal. List Price.
Zacuzes	26499	½	11	$0.10	12	$0.10	13	$0.10	10	$0.08
Zacuzet	26500	¾	21	.15	22	.15	23	.15	20	.11
Zacuzev	26501	1	31	.25	32	.25	33	.25	30	.23
Zacuzew	26502	1¼	41	.36	42	.36	43	.36	40	.32
Zacuzex	26503	1½	51	.48	52	.48	53	.48	50	.45
Zacuzey	26504	2	61	.60	62	.60	63	.60	60	.56
Zacuzez	26505	2½	71	.80	72	.80	73	.80	70	.75
Zacuzi	26506	3	81	.80	82	.80	83	.80	80	.75

			Metal. ⅛-in. Male.		Metal. ⅛-in. Female.		Metal. ⅜-in. Male.		Metal. ⅜-in. Female.		Porcelain. For W. P. Sockets.	
Zacuzib	26507	½	15	.20	16	.20	17	.25	18	.25	14	.16
Zacuzic	26508	¾	25	.25	26	.25	27	.30	28	.30	24	.25
Zacuzid	26509	1	35	.35	36	.35	37	.40	38	.40	34	.40
Zacuzif	26510	1¼	45	.46	46	.46	47	.51	48	.51	44	.56
Zacuzig	26511	1½	55	.58	56	.58	57	.63	58	.63	54	.73
Zacuzih	26512	2	65	.70	66	.70	67	.75	68	.75	64	.90
Zacuzik	26513	2½	75	.90	76	.90	77	.95	78	.95	74	1.15
Zacuzil	26514	3	85	.90	86	.90	87	.95	88	.95	84	1.20

			Porcelain. ⅛-in. Male.		Porcelain. ⅛-in. Female.		Porcelain. ⅜-in. Male.		Porcelain. ⅜-in. Female.	
Zacuzim	26515	½	19	.25	110	.25	111	.35	112	.35
Zacuzin	26516	¾	29	.30	210	.30	211	.41	212	.41
Zacuzip	26517	1	39	.43	310	.43	311	.53	312	.53
Zacuzir	26518	1¼	49	.58	410	.58	411	.68	412	.68
Zacuzis	26519	1½	59	.72	510	.72	511	.82	512	.82
Zacuzit	26520	2	69	.90	610	.90	611	1.00	612	1.00
Zacuziv	26521	2½	79	1.20	710	1.20	711	1.30	712	1.30
Zacuziw	26522	3	89	1.35	810	1.35	811	1.50	812	1.50

All Condulet Covers of the same size are interchangeable on all Condulet fittings of that size.

Standard Packages: One, two and three wire porcelain covers of the same size may be assorted to make up standard package quantities. Metal covers of the same size may be assorted to make up standard package quantities. Porcelain covers of the same size, with metal nipples, may be assorted to make up standard package quantities.

Covers for weatherproof sockets are not assorted.

Special Notice.—We are also prepared to furnish four (4) wire porcelain covers in all sizes.

CONDULETS.

SIZE OF WIRE HOLES IN 1, 2 AND 3 WIRE PORCELAIN COVERS.

Style of Cover.	Size of Condulets. ½-inch.	¾-inch.	1-inch.	1¼-inch.	1½-inch.	2-inch.	2½-inch.	3-inch.
1 Wire Porcelain.....	13-32	13-32	13-32	13-32	13-32	13-32	1 5-16	1 7-16
2-3 Wire Porcelain.....	5-16	3-8	1-2	11-16	13-16	1	1 5-16	1 7-16

We can furnish the following special covers, if specifically ordered:

1¼-inch Porcelain Cover, one-wire hole, 1⅛-inch diameter.

1½-inch Porcelain Cover, one-wire hole, 1⅜-inch diameter.

2-inch Porcelain Cover, one-wire hole, 1-inch diameter.

2-inch Porcelain Cover, two or three-wire holes, 13-32 inch diameter.

2½-inch Porcelain Cover, one, two or three-wire holes, 1 7-16 inch diameter.

3-inch Porcelain Cover, one, two or three-wire holes, 1 5-16 inch diameter.

SCREWS FOR CONDULET COVERS.

Code Word.	List No.	Size.	1-2-3 Wire, Porcelain.		Weather-proof Socket.		⅛-inch, Porcelain.		⅜-inch, Porcelain.		Metal Covers.	
Zadamoy	27445	½ inch.....	4	$0.64	4	$0.64	4	$0.64	5	$0.80	1	$0.50
Zadamoz	27446	¾ inch.....	5	.80	5	.80	5	.80	5	.80	1	.50
Zadamu	27447	1 inch.....	6	1.16	6	1.16	6	1.16	6	1.16	2	.64
Zadamub	27448	1¼-1½ inch...	7	2.38	7	2.38	7	2.38	7	2.38	3	1.28
Zadamuc	27449	2-2½-3 inch...	3	1.28	3	1.28	3	1.28	3	1.28	3	1.28

Above Lists are per 100.

Condulet Castings when ordered separately from covers are furnished complete with screws for use with one, two and three wire porcelain covers and price of casting includes screws. Where covers are ordered separately from castings, no screws are furnished unless specifically ordered, in which case they will be charged at the above prices.

No credit will be allowed for castings furnished without screws.

PORCELAIN INSULATORS FOR M, N AND O CONDULETS.

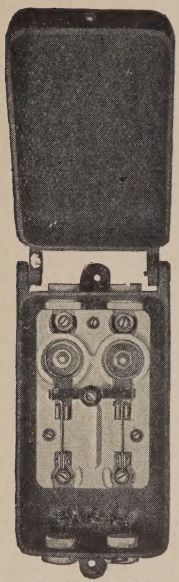
					Each.
Zadamud	27450	For 2 Wire Moulding.....	M2	150	.15
Zadamuf	27451	For 3 Wire Moulding.....	M3	150	.20

FOUR-WIRE CONDULET COVERS.

We are now furnishing 4-wire porcelain covers for Condulets. The sizes and prices of the covers are the same as the 3-wire Condulets. In ordering 4-wire Condulets it will be necessary to state the type and size of Condulet, and that they are to be for four wires.

NEW CODE IRON CLAD SERVICE SWITCHES.

TECO ENTRANCE SWITCH, WITH FUSE PLUG CUT OUT.



No. 19895.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacikig	19895	120	D. P. 25 amp. 110 volt	$3.00
Zacikih	19896	220	D. P. 25 amp. 220 volt	3.50
Zacikik	19897	230	T. P. 25 amp. 220 volt	4.00
Zacimab	22585	231	H. P. 25 amp. 110 volt	6.50

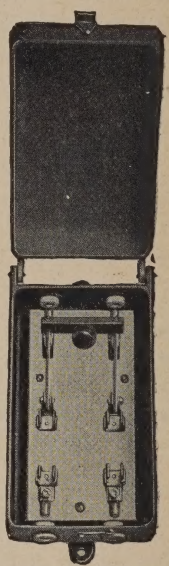
In ordering state if for ½ or ¾ conduit or open work.

TECO ENTRANCE SWITCH.

FOR FERRULE CONTACT NEW CODE STANDARD FUSES.

220 Volts Direct Current.

440 Volts Alternating Current.



No. 19898.

Zacikil	19898	216	60 amp. two pole..	5.00
Zacikim	19899	236	60 amp, three pole.	7.50
Zacimac	22586	237	60 amp. four pole.	12.50

State if ½ or ¾ conduit or open work.

For above switch not fused deduct 10 per cent.

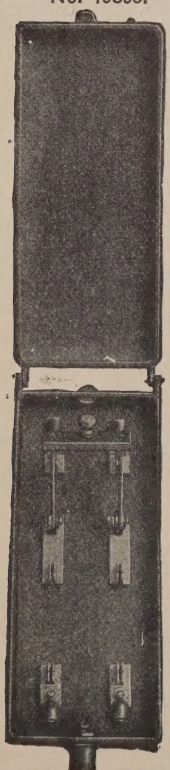
All Teco Boxes and Cabinets have the approval of the Underwriters.

TECO ENTRANCE SWITCH.

FOR KNIFE BLADE CONTACT ENCLOSED FUSES.

Fuses not Included.

250 Volts D. C. 440 Volts A. C.



No. 19900.

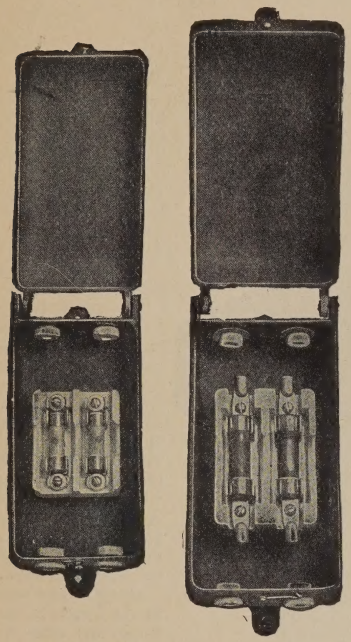
Zacikin	19900	2210	D. P. 100 amp	9.00
Zacikip	19901	2310	T. P. 100 amp	12.00
Zacikir	19902	2220	D. P. 200 amp	16.00
Zacikis	19903	2320	T. P. 200 amp	21.00
Zacikit	19904	2240	D. P. 400 amp	28.50
Zacikiv	19905	2340	T. P. 400 amp	37.50
Zacikiw	19906	2250	D. P. 600 amp	40.00
Zacikix	19907	2350	T. P. 600 amp	53.50

In ordering state size conduit or for open work.

Small sizes in cast iron boxes, see cut. Large sizes in wrought iron boxes.

For above switch not fused deduct 10 per cent.

NEW CODE IRON CLAD SERVICE SWITCHES.



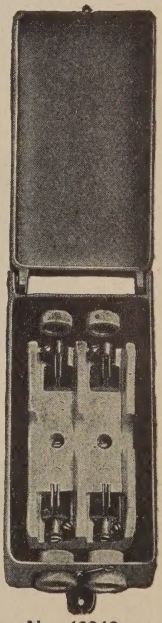
TECO DOUBLE POLE FUSE BOX.

For Ferrule Contact New Code Standard Fuses.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacikiy	19908	253	1 to 30 amp., 250 volt, two wire	$2.50
Zacikiz	19909	353	1 to 30 amp., 250 volt, three wire	3.75
Zaciko	19910	256	31 to 60 amp., 250 volt, two wire	3.50
Zacikob	19911	356	31 to 60 amp., 250 volt, three wire	5.25

State if for ½ or ¾ conduit or open work.
Price complete without fuses, as shown.
250 Volts D. C. 440 Volts A. C.

Any four pole fuse box at double the list of two pole.



No. 19912.

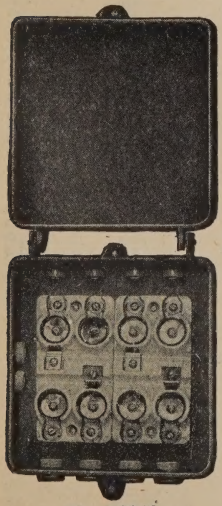
TECO DOUBLE POLE FUSE BOX.

For Knife Blade Contact New Code Fuses.

220 Volt D. C. 440 Volt A. C.

Zacikoc	19912	2510	61 to 100 amp., 250 volt	5.00
Zacikod	19913	2520	101 to 200 amp., 250 volt	9.00
Zacikef	19914	2540	201 to 400 amp., 250 volt	18.00
Zacikog	19915	2560	401 to 600 amp., 250 volt	30.00

State size of conduit or for open work.
Price complete without fuses, as shown in cut.
For 3 wire add 50 per cent.



No. 19916.

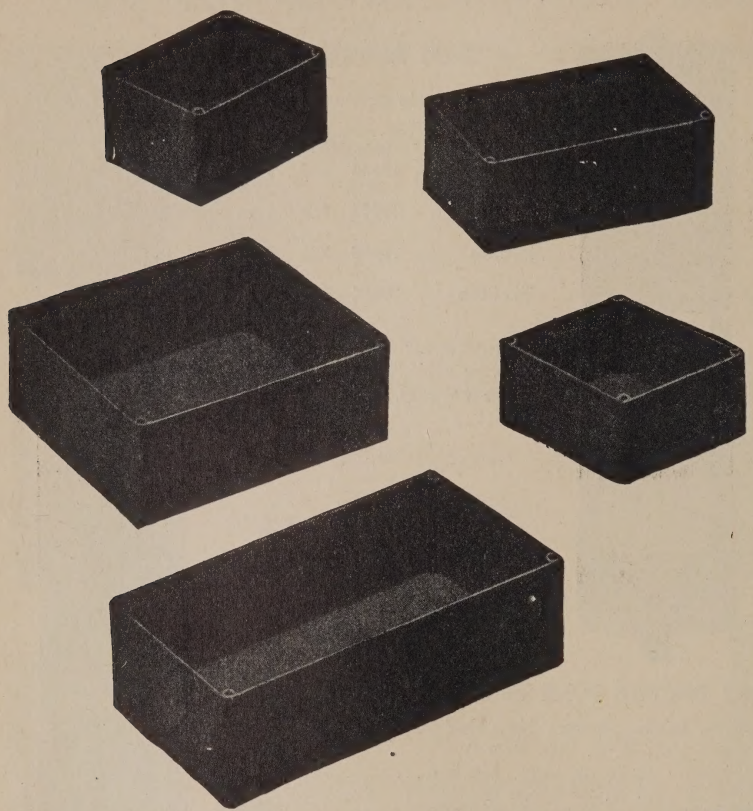
All Teco Boxes and Cabinets have the approval of the Underwriters.

TECO SURFACE CUT OUT CABINET 125 VOLTS.

Zacikoh	19916	12	2 Circuit, 2 wire mains	4.00
Zacikok	19917	13	4 Circuit, 3 wire mains	4.00
Zacikol	19918	14	4 Circuit, 2 wire mains	8.00
Zacikom	19919	15	4 Circuit, 3 wire mains	8.00
Zacikon	19920	16	6 Circuit, 2 wire mains	12.00
Zacikop	19921	17	6 Circuit, 3 wire mains	12.00
Zacikor	19922	18	8 Circuit, 2 wire mains	16.00
Zacikos	19923	19	8 Circuit, 3 wire mains	16.00
Zacikot	19924	20	10 Circuit, 2 wire mains	20.00
Zacikov	19925	21	10 Circuit, 3 wire mains	20.00

Write for prices larger sizes. Made for open work or ½ inch or ¾ inch conduit.
Price complete as shown, without fuse plugs.
8 Circuit and smaller cast iron.
10 Circuit and larger wrought iron.

SQUARE AND RECTANGULAR CAST IRON BOXES.



Tapped in corners to receive screws for holding covers. Sheet steel covers are plain; cast iron covers have rim fitting down over box. All covers interchangeable on boxes of one size.

We are prepared to fit covers on any of these boxes with wrought iron hinges, with thumb screws, wrought iron spring bolts, or Yale locks. Can also furnish heavy wrought iron covers for floor or platform work, and brass covers for exposed work.

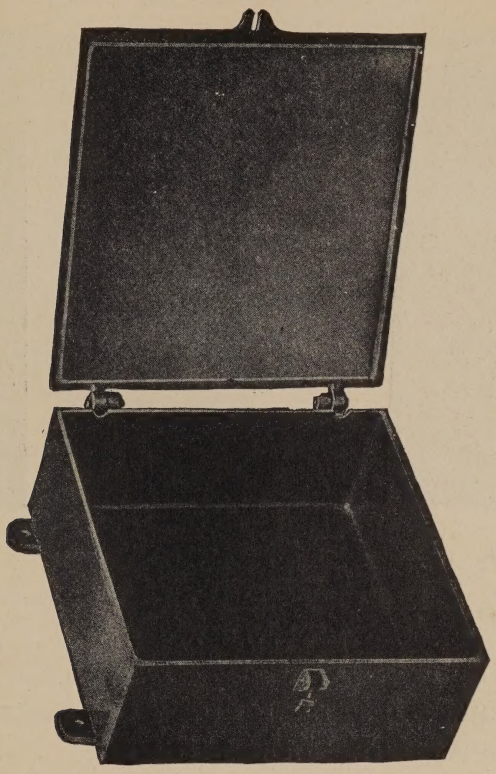
Made in any size up to 12x24x12 in. Following sizes in stock:

Code Word.	List No.	Mfr. No.	INSIDE DIMENSIONS. Width.	Length.	Depth.	LIST PRICE, EACH. Box.	Sheet Steel Cover.	Cast Iron Cover.
Rapacity	**36077**	105	2⅝"	3½"	1¼"	**$ .20**	**$ .06**	**$ .08**
Rapacious	**36078**	110	3½	3½	1¼	**.24**	**.06**	**.08**
Rap	**36079**	115	3	4	1½	**.25**	**.07**	**.09**
Rant	**36080**	120	3⅛	4⅛	2½	**.36**	**.07**	**.09**
Ransom	**36081**	123	4	4½	1½	**.30**	**.08**	**.10**
Ransack	**36082**	125	4	4½	2¾	**.40**	**.08**	**.10**
Rankle	**36083**	130	4¼	5	2½	**.45**	**.10**	**.12**
Rank	**36084**	135	4½	5½	2⅝	**.50**	**.10**	**.14**
Range	**36085**	140	4¼	6½	2¾	**.60**	**.12**	**.16**
Random	**36086**	145	4¼	8¾	2¾	**.70**	**.14**	**.20**
Rancor	**36087**	150	4¼	10¾	2¾	**.80**	**.16**	**.22**
Rancid	**36088**	155	4¼	12	2¾	**.90**	**.18**	**.24**
Ranch	**36089**	160	4¼	13¾	2¾	**1.10**	**.20**	**.26**
Ramrod	**36090**	165	4¼	15½	2¾	**1.30**	**.22**	**.30**
Rampart	**36091**	170	5	6½	3	**.70**	**.16**	**.20**
Ramp	**36092**	175	6	6	4	**1.20**	**.22**	**.30**
Ramify	**36093**	180	6¼	7	2¾	**.90**	**.22**	**.30**
Ramble	**36094**	185	6	8	3	**1.00**	**.22**	**.30**
Ram	**36095**	190	6	8	4	**1.70**	**.22**	**.30**
Rally	**36096**	195	4	12	4	**2.00**	**.30**	**.50**
Rake	**36097**	200	6	12½	4	**2.10**	**.30**	**.40**
Rajah	**36098**	205	8	10	4	**2.20**	**.40**	**.50**
Rasin	**36099**	210	9	10	4	**2.25**	**.40**	**.60**
Raise	**36100**	215	10	12	4	**2.50**	**.50**	**.70**
Rain	**36101**	220	12	12	4	**2.70**	**.50**	**.70**
Raiment	**36102**	225	12	19	4	**5.50**	**.70**	**1.50**
Railway	**36103**	230	8	34	8	**7.00**	**1.00**	**2.00**
Raillery	**36104**	235	12	24	12	**15.00**	**1.50**	**4.00**

Prices above are for plain Boxes, with holes drilled and tapped for fastening covers. An extra charge will be made for each hole drilled or drilled and tapped, as follows:

		Conduit.	Drilled Only.	Drilled and Tapped.
Rail	**36105**	½ in. or ¾ in.	**.04**	**.08**
Raid	**36106**	1 in.	**.08**	**.12**
Rage	**36107**	1¼ in.	**.12**	**.16**
Ragamuffin	**36108**	1½ in.	**.16**	**.24**
Rag	**36109**	2 in.	**.20**	**.36**
Rafter	**36110**	2½ in.	**.24**	**.48**

SQUARE AND RECTANGULAR CAST IRON SWITCH AND CUTOUT BOXES.



Standard boxes have cast hinges and brass swiveled thumb nut catch. Boxes with spring bolt, Yale locks, etc., at equitable advance in price.

Boxes under 12x12 in. have countersunk screw holes in bottom for fastening to wall, larger sizes have four cast lugs.

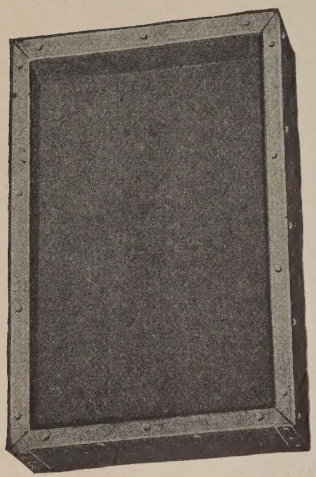
INSIDE DIMENSIONS AND PRICES.

Code Word.	List No.	Mfr. No.	Width.	Length.	Depth.	List Price Each.
Scent	36111	305	5	6¼	2½	$1.10
Scoundrel	36112	310	5¾	8¾	2½	1.30
Scotfree	36113	312	6	6	4	1.65
Scoria	36114	315	6	8	4	2.20
Scollop	36115	320	6	9	3	1.50
Scrawl	36116	325	7	9	4	2.40
Scratch	36117	330	6	12½	4	2.70
Scrape	36118	335	8	10	4	2.90
Scrap	36119	340	8½	10	2½	2.00
Scrag	36120	345	8	13½	4	3.30
Scramble	36121	350	8	15½	3¼	3.20
Scrabble	36122	355	10	12	4	3.40
Scrowl	36123	360	11½	13½	4	4.06
Scow	36124	365	12	12	4½	3.60
Scout	38565	370	12	19	4	7.48
Rarebit	38566	375	12	24	7	10.50
Rare	38567	380	17	18	4	8.80

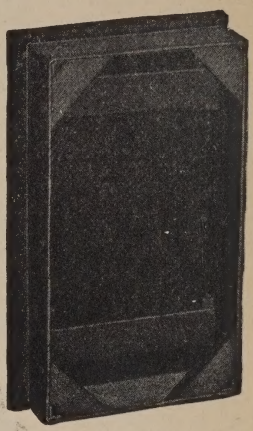
DRILLING, PER HOLE, EXTRA:

		Conduit.	Drilled only.	Drilled and Tapped.
Rapture	38568	½ in. or ¾ in.	$ .04	.08
Rapt	38569	1 in.	.08	.12
Rapport	38570	1¼ in.	.12	.16
Rapine	38571	1½ in.	.16	.24
Rapidity	38572	2 in.	.20	.36
Rapid	38573	2½ in.	.24	.48

SHEET STEEL PANEL BOARD BOXES.



STYLE A.



STYLE B.

STYLE A.

The back and four sides are formed of one piece of sheet steel reinforced and riveted at corners. An angle iron frame is riveted around front (inside) and is drilled and tapped for No. 14-20 machine screws, for holding door trim.

We are prepared to furnish this box with plain or paneled steel door (with clear or ground plate-glass), furnished with thumb-screw catch, spring-bolt or lock. This box is tight, light, very strong and easily installed.

Furnished in any size from 6x6 in. to 38-72 in., and of any depth up to 6½ in.

As this Box is made by special machinery, inside dimensions **cannot be varied** by fractional parts of inches.

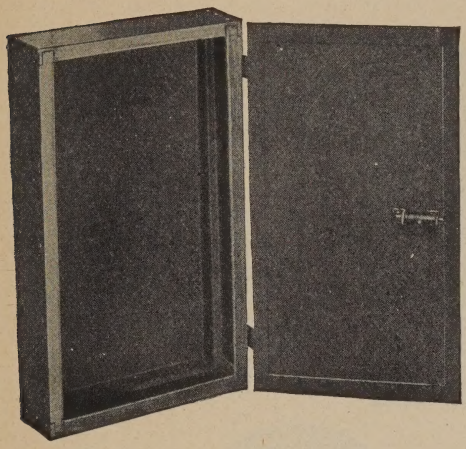
Style A, with plain steel door, thumb-screw catch, add 33⅓ per cent. to list. Fancy doors, with spring-bolts, locks, etc., at equitable prices.

STYLE B.

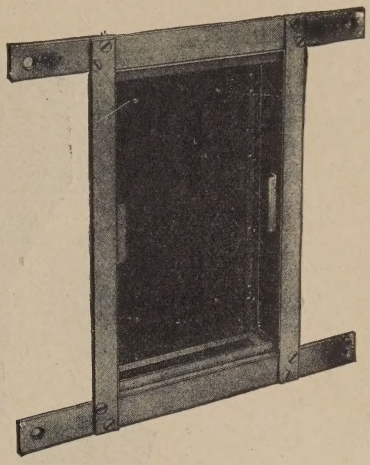
This Box is built up of sheet steel, with corners formed of angle irons, which can be placed either inside or outside of box, as desired, cut shows angle iron on outside at back of box. Sides and ends are of No. 10 steel. Hard wood pieces are fastened in for holding door trim.

Furnisned in all sizes up to 48x96 in.

SHEET STEEL PANEL BOARD BOXES.



Style C.



Style D.

STYLE C.

This style Box is built on same lines as Style B, but has angle iron frame around front, and is shown with plain sheet steel, paneled door, with spring bolt.

Furnished in all sizes up to 48x96 inches.

Fancy doors, with locks, etc., at equitable prices.

STYLED.

This box has a very heavy wrought iron frame around front, for carrying heavy marble doors, and will carry 2-inch marble doors without deflection.

Body of box is the same as Style A where depth does not exceed 6½ inches. Cut shows body of box same as Style C (where depth is greater than 6½ inches), with angle irons for holding slate facing.

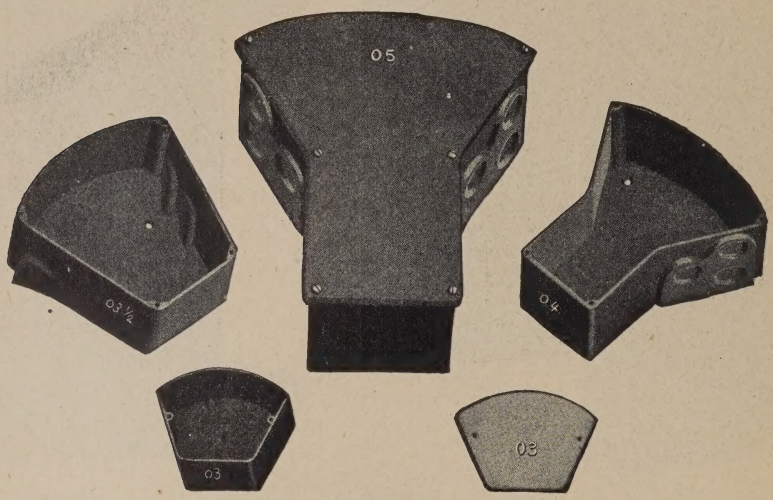
BOXES DRILLED FOR CONDUIT AT FOLLOWING RATE:

For ½ in. Conduit.....at	$ .08 per hole	For 1½ in. Conduit.....at	$ .32 per hole
For ¾ in. Conduit.....at	.08 per hole	For 2 in. Conduit.....at	.40 per hole
For 1 in. Conduit.....at	.16 per hole	For 2½ in. Conduit.....at	.48 per hole
For 1¼ in. Conduit.....at	.24 per hole	For 3 in. Conduit.....at	.48 per hole

All sheet Steel Panel Board Boxes have irons across back for holding boards. These irons are 2 to 3 inches wide and from ⅛ to ½ inch thick, depending on size of box. Back irons are placed either on inside or outside of box, and will be extended beyond line of box, if so desired.

Standard depth of all Sheet Steel Panel Board Boxes is 5 in. An extra charge of 7½ per cent. to list price will be made for each additional inch in depth.

TERMINAL BOXES.



For connections between house wiring (in conduit) and air lines these boxes make a safe and substantial job.

Nos. 04 and 05 have three openings on each side, for porcelain or other bushings. These openings are closed with metal and are easily knocked out. Openings in 04 are ⅞ in. diameter, and 1⅜ in. diameter in 05.

Nos. 03 and 03½ are designed for separating and insulating two or more wires as they leave the end of conduit. Openings drilled as required.

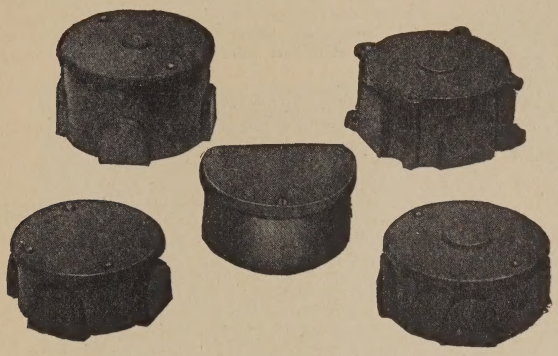
DIMENSIONS AND PRICES.

Code Word.	List No.	Mfr. No.	Width—Narrow End.	Width—Broad End.	Length.	Depth.	List Price Each.
Racy	35323	03	2 in.	4 in.	3 in.	2⅛ in.	$ .40
Racket	35324	03½	3	6	6	2⅞	1.00
Rack	35325	04	3	6	7	3⅛	1.20
Race	35326	05	4¼	9	10¼	4½	2.20

Prices above are for plain Boxes and covers, with holes drilled and tapped for fastening covers. An extra charge will be made for each hole drilled, or drilled and tapped, as follows:

		Conduit.	Drilled only.	Drilled and Tapped.
Raca	36063	½ or ¾ in.	$ .04	.08
Rabies	36064	1	.08	.12
Rabid	36065	1¼	.12	.20
Rabble	36066	1½	.16	.24
Rabbin	36067	2	.20	.36

CAST IRON OUTLET BOXES.



These boxes are made of light grey iron castings, tapped to receive screws for holding covers. Covers are interchangeable on boxes of same diameter, and have rim around outer edge fitting neatly over the box.

Standard boxes have flat bottoms with two countersunk screw holes for fastening to wall.

Boxes will be drilled for receptacles, fixture supports or snap switches, as ordered. Boxes have four bosses that will take ¾ in. conduit.

In connection with exposed conduit work, snap switches when mounted on cover of No. 30½ box makes a strong and neat arrangement.

Box No. 36 is a very heavy, finely machined box, and is absolutely water and gas tight; furnished with rubber or leather gasket.

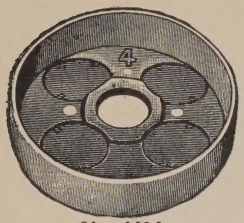
INSIDE DIMENSIONS AND PRICES.

Code Word.	List No.	Mfr. No.	Diam.	Depth.		List Price Box.	Each. Cover.
Raft	36068	30½	3½"	1¾"	Half Round	$0.22	$0.06
Faffle	36069	31	3¼	1⅞	Round	.20	.06
Radius	36070	32	3⅛	1½	"	.24	.06
Radicate	36071	33	3⅝	1½	"	.24	.08
Radical	36072	34	3⅝	1⅞	"	.26	.08
Radiate	36073	35	3⅝	2½	"	.38	.08
Radiant	36074	36	3⅝	1⅞	"	1.00	Complete.

Prices are for plain Boxes. Drilling or drilling and tapping as follows:

			Per Hole.
Radiance	36075	Drilling for ½ in. or ¾ in. conduit	.04
Raddle	36076	Drilling and Tapping for ½ in. or ¾ in. conduit	.08

T. AND B. BOXES.



No. 1494.

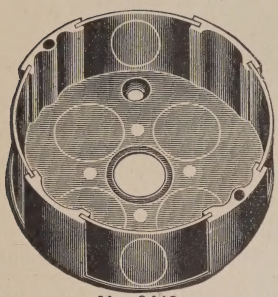
CEILING BOX.

This box has been especially designed for terra cotta work, where conduit enters from the back.

Boxes are of cast iron with four steel knockouts. There is also a cored hole in center for ½ in. gas pipe or hanger rod.

	Diam.	Depth.
For ½ in. Conduit	4¼ in.	¾ in.
For ¾ in. Conduit	4¾ in.	¾ in.

Code Word.	List No.	Mfr. No.		List Price, Per 100.
Zaceyos	1494	4	For ½ in. Conduit	$15.00
Zaceyot	1499	4	For ¾ in. Conduit	15.00


No. 9412.

SIDE OUTLET OR CEILING BOX.

This box has steel sides, each side being provided with a Toler "Knockout."

There are also four knockouts in the bottom and a cored ½ in. hole in center for gas pipe or hanger rod.

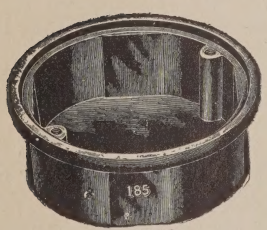
Boxes have necessary holes for fixture stud, also holes for attachment to support.

As box has a diameter of only 4 in. no cover is required where a 4½ in. canopy is used.

Diameter ..... 4 in.
Depth ..... 1⅝ in.

For ½ in. Conduit only.

Zaceyov	9412	9	Box	25.00
Zaceyow	9413	9	Cover (plain)	6.00
Zaceyox	9414	9A	Cover (⅜ in. hole D. & T. in center)	15.00
Zaceyoy	9415	9B	Cover (1¼ in. hole cored in center)	6.00
Zaceyoz	9416	9C	Cover (for Federal Receptacle)	6.00
Zaceyu	9417	9D	Cover (for No. 50783 Receptacle)	9.00
Zaceyub	9418	9E	Cover (⅜ in. Lipped opening)	6.00



No. 9444.

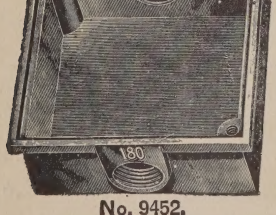
CAST IRON WEATHERPROOF BOXES.

ROUND.

Zaceyuc	9444	185	Box 3½ in. diam., 1¼ in. deep.	24.00
Zaceyud	9445	190½	Box 3½ in. diam., 1½ in. deep.	29.00
Zaceyuf	9449	185½	Box 3½ in. diam., 3 in. deep.	51.00
Zaceyug	9450	186½	Plain cover	8.00
Zaceyuh	9451	186	Plain cover, D. & T. ⅜, ½ or ¾	15.00

SQUARE.

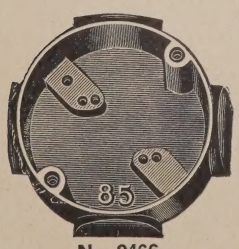
Zaceyuk	9452	180	Box 3½ in. sq., 1¼ in. deep	24.00
Zaceyul	9453	190	Box 3½ in. sq., 1½ in. deep	29.00
Zaceyum	9454	191	Box 3½ in. sq., 2½ in. deep	47.00
Zaceyun	9455	181	Plain cover	8.00
Zaceyup	9456	182	Plain cover, D. & T. ⅜ in.	11.00
Zaceyur	9457	183	Receptacle cover, 1¼ in. centers	11.00
Zaceyus	9458	184	Plain cover, D. & T. ½ in. or ¾ in.	15.00
Zaceyut	9459	187½	Cover, 1¼ in. plain hole in center	8.00
Zaceyuv	9460	187	Cover, 1 9-16 in. plain hole in center	8.00
Zaceyuw	9461	188	Rotary switch cover	13.00
Zaceyux	9462	188½	Cover for Benj. recept's	17.00
Zaceyuy	9463	189	Plug receptacle cover	12.00
Zaceyuz	9464	189B	Flat cover for switch	12.00
Zaceza	9465	189½	Bracket outlet cover	7.00



No. 9452.

CAST IRON RECEPTACLE BOXES.

Zacezab	9466	85	Box 3 in. diam., 1¼ in. deep.	24.00
Zacezac	9467	86	Box 3 in. diam., 1¾ in. deep.	29.00
Zacezad	9468	96	Box 3 in. diam., 1¼ in. deep (outside lugs)	24.00
Zacezaf	9469	10	Cover, D. & T., 1½ in. or 1¾ in. centers	9.00
Zacezag	9470	84	Cover, plain	6.00
Zacezah	9471	85	Cover, 1¼ in. lipped hole	6.00
Zacezak	9472	86	Cover, 1¼ in. plain hole	6.00
Zacezal	9473	89	Cover, 15-16 in. lipped hole.	9.00
Zacezam	9474	91	Cover, 1⅝ in. plain hole	6.00

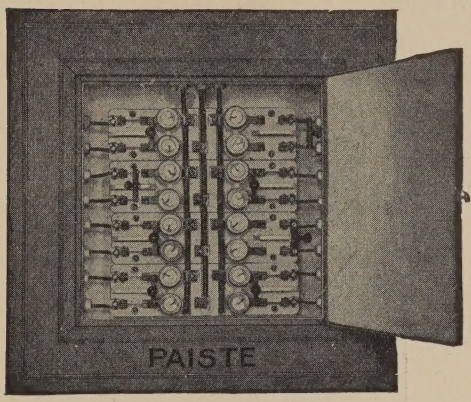


No. 9466.

PAISTE PANEL BOXES.

WOODEN BOX—WOODEN FRONT.

ASBESTOS LINED.

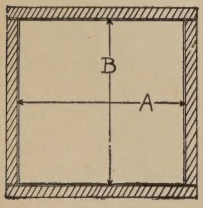


No. 4952—BOX.
Showing use with panel cut outs.

These panel boxes—an entirely new idea in manufactured cabinets—are in two parts—the front and the box proper.

The front is of solid oak, of standard width of 4 inches, and of a design that will look well with any house trim. The asbestos lined door is quartered oak, provided with mortised lock and hung on brass hinges.

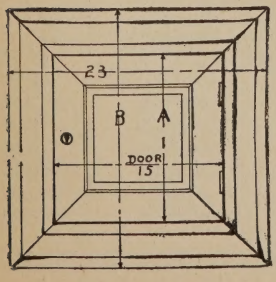
The box is of ⅞ inch white pine, strongly nailed, and lined throughout with asbestos board of the required ⅛ inch thickness. It is 15 inches wide, inside, giving ample room to set in and wire the widest of the "P-K" panel cut outs.



THE BOX.

Code Word.	List No.	Mfr. No.		Std. Pkg.	List Price Each.
Zabibem	**4952**	4050	1 to 8 circuits..	10	**$ 6.50**
Zabiben	**4953**	4051	9 to 12 circuits..	5	**9.00**
Zabibep	**4954**	4052	13 to 16 circuits..	5	**11.50**
Zabiber	**4955**	4053	17 to 20 circuits..	5	**14.00**

List prices do not include cut-outs, which must be ordered separately.



THE FRONT.

DIMENSIONS.

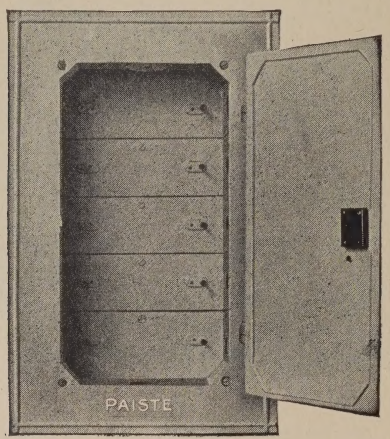
	Box A.	Box B.	Front A.	Front B.
4952	15 inches.	15 inches.	15 inches.	23 inches.
4953	15 inches.	21½ inches.	21½ inches.	29½ inches.
4954	15 inches.	28 inches.	28 inches.	36 inches.
4955	15 inches.	34½ inches.	34½ inches.	42½ inches.

These boxes are 3¾ inches deep.

PAISTE IRON PANEL BOXES.

(Le Manquais Patents.)

NATIONAL ELECTRICAL CODE STANDARD.



No. 27528.

Le Manquais boxes are of the best grade of gray cast iron of ⅛ inch or 3-16 inch in thickness, differing according to the size and style of the box. They are finished in smooth, white enamel, three coats and proper baking giving them a perfect durable finish.

The box part is built up from separate sections all securely screwed together. By keeping a large stock of these uniform sections on hand special box of unusual size can be built on very short notice. Having once installed one of these boxes, should you later find it necessary to increase the capacity of same, you, yourself, can insert the extra section needed, while the front alone need be returned to us and replaced by a larger one.

Le Manquais boxes are generally used with main service feeds coming in at the top or at the bottom of the box, and here we have provided openings for 1½ inch conduit.

The openings at the sides are of proper size for ½ inch conduit. Should larger size be desired for these branch circuits, we can easily provide for same on special order. The many styles of Le Manquais Panel Boxes are divided into different classes according to their sizes in width.

TYPE "A" PANEL BOX.

We show below a Type A box having a capacity of 10 circuits in double branch Plug Cut Outs or 6 circuits in Type A and Type B Paiste Panelettes.

Type "A" boxes measure 8½ inches wide by 3 inches deep, inside. The heights are given in list below.

Code Word.	List No.	Mfr. No.	Height Inside.	Capacity in Plug Circuits.	Capacity in Panelettes.	List Price, Each.
Zadanix	27524	4158	4½ in.	2 circuits	.....	$4.80
Zadaniy	27525	4159	7¼ in.	4 circuits	.....	6.00
Zadaniz	27526	4160	10¼ in.	6 circuits	2 circuits	7.20
Zadano	27527	4161	13¼ in.	8 circuits	4 circuits	8.40
Zadanob	27528	4162	16¼ in.	10 circuits	6 circuits	9.60
Zadanoc	27529	4163	19¼ in.	12 circuits	8 circuits	10.80
Zadanod	27530	4164	22¼ in.	14 circuits	10 circuits	12.00
Zadanof	27531	4165	25¼ in.	16 circuits	12 circuits	13.20

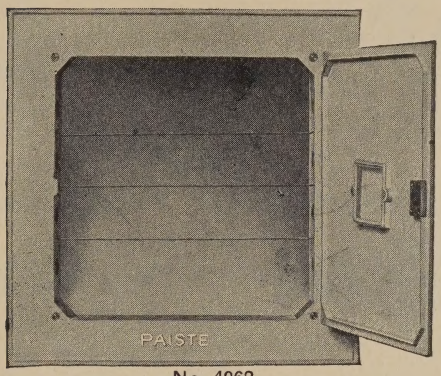
Any assortment of Le Manquais boxes having a total capacity of 100 circuits constitutes a standard package.

PAISTE IRON PANEL BOXES.

(Le Manquais Patents.)

NATIONAL ELECTRICAL CODE STANDARD.

TYPE "D" PANEL BOXES.



No. 4962.

These boxes are of proper size and drilling to take Paiste Panel Cut Outs, Paiste Panel Cut Outs for Rotary Switches, Paiste Type "C" Panelettes and Bryant Panel Cut Outs.

Type "D" boxes measure 15⅝ inches wide by 3½ inches deep. The heights are given in list below:

Code Word.	List No.	Mfr. No.	Height Inside.	Capacity in Panel Cut Outs.	Capacity in Panelettes.	List Price, Each.
Zabibew	4959	4060	5¾ in.	2 circuits	.....	$7.20
Zabibex	4960	4061	9 in.	4 circuits	2 circuits	9.60
Zabibey	4961	4062	12¼ in.	6 circuits	4 circuits	12.00
Zabibez	4962	4063	15½ in.	8 circuits	6 circuits	14.40
Zabibi	4963	4064	18¾ in.	10 circuits	8 circuits	16.80
Zabibib	4964	4065	22 in.	12 circuits	10 circuits	19.20
Zabibic	4965	4066	25¼ in.	14 circuits	12 circuits	21.60

TYPE "C" PANEL BOXES.

These boxes are of proper size and drilling to take such panel cut outs as made by Trumbull Electric Company. We give sizes below:

Type "C" boxes measure 15 inches wide by 3½ inches deep inside. The heights are given in lists below:

Zadamut	27461	4300	5½ in.	2 circuits	7.20
Zadamuv	27462	4301	9 in.	4 circuits	9.60
Zadamuw	27463	4302	12 in.	6 circuits	12.00
Zadamux	27464	4303	15 in.	8 circuits	14.40
Zadamuy	27465	4304	18 in.	10 circuits	16.80
Zadamuz	27466	4305	21 in.	12 circuits	19.20
Zadana	27467	4306	24 in.	14 circuits	21.60

TYPE "BB" PANEL BOXES.

These Panel Boxes are of proper size to take the "Hart" combined Switch and Cut Out and the Perkins Porcelain Covered Combined Switch and Cut Out.

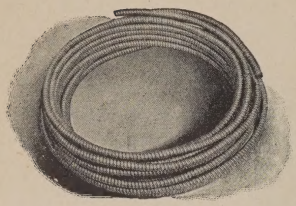
Type "BB" boxes measure 11½ inches wide by 3 inches deep inside. The heights are given in lists below:

Zadanab	27468	4190	6 in.	2 circuits	6.00
Zadanac	27469	4191	10 in.	4 circuits	7.80
Zadanad	27470	4192	13 in.	6 circuits	9.60
Zadanaf	27471	4193	16 in.	8 circuits	11.40
Zadanag	27472	4194	19 in.	10 circuits	13.20
Zadanah	27473	4195	22 in.	12 circuits	15.00
Zadanak	27474	4196	25 in.	14 circuits	16.80

Any assortment of Le Manquais Boxes, having a total capacity of 100 circuits, constitutes a standard package.

GREENFIELD FLEXIBLE STEEL CONDUIT AND FITTINGS.

GALVANIZED.



Code Word.	List No.		Approx. feet in coil.	List Price, per 100 ft.
Zavub	18194	$\frac{5}{16}$ inch, per 100 feet.....	200	$3.35
Zavud	18195	$\frac{3}{8}$ inch, per 100 feet.....	200	5.10
Zavuf	18196	$\frac{1}{2}$ inch, per 100 feet.....	100	10.00
Zavug	18197	$\frac{3}{4}$ inch, per 100 feet.....	50	13.00
Zavuh	18198	1 inch, per 100 feet.....	50	21.00
Zavuk	18199	$1\frac{1}{4}$ inch, per 100 feet.....	50	31.00
Zavum	18201	$1\frac{1}{2}$ inch, per 100 feet.....	50	42.00
Zavur	18204	2 inch, per 100 feet.....	50	57.00

COUPLINGS AND LEAD BUSHINGS.

No. 18200.

No. 18203.

Diameter.			Diameter, $\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Zavul	18200	Couplings, No. 5104, per 100	$8.50	$9.25	$12.00	$16.00	$22.00	$30.00	$43.00
Zavun	18202	Lead Bushings, No. 5320, per 100	.90	.95	1.30	1.70	2.50	5.00	7.50
Zavup	18203	*Clamp Combination Coupling, No. 5105, per 100	....	12.50	16.00	21.00	30.00	40.00	60.00

*This Coupling is used to continue rigid to flexible conduit, or vice versa.

Orders Should Specify Size Desired.

BOX FITTINGS.

No. 18210. No. 18209.

OUTLET BUSHINGS.

				Std. Pck.	Per 100.
Zavux	18209	5120	For No. 14 or No. 12 BX Conductors.....	50	5.00
Zavuz	18210	5121	For ½-inch Flexible Conduit.....	50	5.00
Zawa	18211	5122	For ¾-inch Flexible Conduit.....	50	7.50
Zawab	18212	5123	For 1-inch Flexible Conduit.....	10	10.00
Zavus	18205	5123¼	For 1¼-inch Flexible Conduit.....	10	14.00
Zavut	18206	5124	For 1½-inch Flexible Conduit.....	10	20.00
Zavuv	18207	5124¼	For 2-inch Flexible Conduit.....	10	26.00

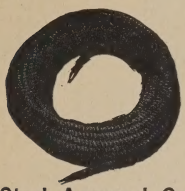
Outlet Bushings are furnished in Enamelled and Galvanized Finish. Above prices include Check Nuts.

PANEL BOX TERMINAL BUSHINGS.

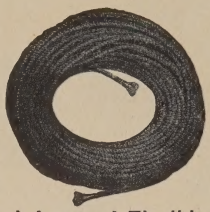
Zawad	18213	5125	For No. 14 or No. 12 BX Conductors.....	7.50
Zawaf	18214	5126	For ½-inch Flexible Conduit.....	8.00
Zawag	18215	5127	For ¾-inch Flexible Conduit.....	10.00
Zawah	18216	5128	For 1-inch Flexible Conduit.....	14.00
Zawak	18217	5128¼	For 1¼-inch Flexible Conduit.....	20.00
Zawal	18218	5129	For 1½-inch Flexible Conduit.....	28.00
Zawam	18219	5129¼	For 2-inch Flexible Conduit.....	36.00

Panel Box Terminal Bushings are furnished in Enamelled and Galvanized Finish. Above prices include Check Nuts.

GREENFIELD FLEXIBLE STEEL ARMORED CONDUCTORS.



Flexible Steel Armored Conductors.



Steel Armored Flexible Cord.

Twin Conductors, Type BX.

Twin Conductors, Type BXL.

TWIN CONDUCTORS. TYPE BX.

Code Word.	List No.		Approximate Feet in Coil.	List Price Per 1000 Ft.
Zatox	18101	No. 14 B. & S.	250	$104.00
Zatoz	18102	No. 12 B. & S.	250	135.00
Zatu	18103	No. 10 B. & S.	250	185.00
Zatub	18104	No. 8 B. & S.	150	210.00
Zatud	18105	No. 6 B. & S.	100	370.00

TWIN CONDUCTORS. TYPE BM.

For Marine Work.

Zatuf	18106	No. 14 B. & S.	200	139.00
Zatug	18107	No. 12 B. & S.	200	189.00
Zatuh	18108	No. 10 B. & S.	150	220.00

THREE CONDUCTORS. TYPE BX3.

Zatuk	18109	No. 14 B. & S.	250	138.00
Zatul	18110	No. 12 B. & S.	250	170.00
Zatum	18111	No. 10 B. & S.	200	235.00
Zaciza	24524	No. 8 B. & S.	200	325.00

SINGLE CONDUCTORS. TYPE D.

				Solid.	Stranded.
Zatun	18112	No. 10 B. & S.	250	$90.00	95.00
Zatup	18113	No. 8 B. & S.	250	106.00	115.00
Zatur	18114	No. 6 B. & S.	250	145.00	160.00
Zatus	18115	No. 4 B. & S.	200		205.00
Zatut	18116	No. 2 B. & S.	200		266.00
Zatuv	18117	No. 1 B. & S.	100		315.00

TWIN CONDUCTORS. TYPE BXL.

Lead Covered and Steel Armored.

Zatuw	18118	No. 12 B. & S.	200	164.00
Zatux	18119	No. 14 B. & S.	200	211.00
Zatuz	18120	No. 10 B. & S.	150	255.00
Zacizab	24525	No. 8 B. & S.	150	325.00

THREE CONDUCTORS. TYPE BXL3.

Lead Covered and Steel Armored.

Zava	18121	No. 14 B. & S.	150	222.00
Zavab	18122	No. 12 B. & S.	150	257.00
Zavad	18123	No. 10 B. & S.	150	292.00

SINGLE CONDUCTORS. TYPE DL.

Lead Covered and Steel Armored.

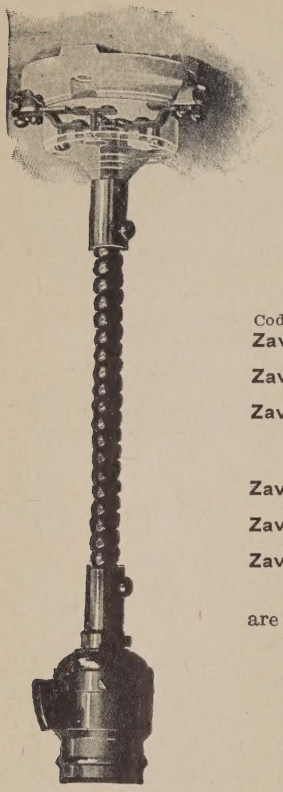
				Stranded.
Zavaf	18124	No. 10 B. & S.	250	120.00
Zavag	18125	No. 8 B. & S.	200	145.00
Zavah	18126	No. 6 B. & S.	200	196.00
Zavak	18127	No. 4 B. & S.	150	249.00
Zaval	18128	No. 2 B. & S.	150	319.00
Zavam	18129	No. 1 B. & S.	100	388.00

STEEL ARMORED FLEXIBLE CORD. TYPE E.

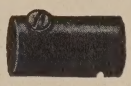
Zavan	18130	No. 18 B. & S.	300	58.00
Zavap	18131	No. 16 B. & S.	300	65.00
Zavar	18132	No. 14 B. & S.	200	95.00

STEEL ARMORED FLEXIBLE CORD. TYPE EM (REINFORCED).

Zavas	18133	No. 18 B. & S.	250	111.00
Zavat	18134	No. 16 B. & S.	250	125.00
Zavav	18135	No. 14 B. & S.	200	145.00



SPRAGUE FITTINGS FOR STEEL ARMORED FLEXIBLE CORD.



Terminal Bushing. No.18177.

Rosette Bushing. No. 18178.

Socket Bushing. No. 18179.

List Prices of Steel Armored Flexible Cord Fittings, Per 100.

STEEL.

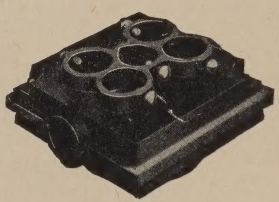
Code Word.	List No.		TYPE E. No. 18	No. 16	No. 14	TYPE EM. No. 18	No. 16	No. 14
Zavod	18177	Terminal Bushing	$6.00	$6.00	$8.00	$11.00	$11.00	$12.00
Zavof	18178	Rosette Bushing	13.00	13.00	15.00	20.00	20.00	22.00
Zavog	18179	Socket Bushing	7.50	7.50	9.50	12.00	12.00	13.00

BRASS.

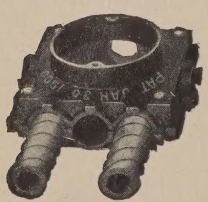
Zavoh	18180	Terminal Bushing	12.00	12.00	15.00	24.00	24.00	28.00
Zavok	18181	Rosette Bushing	30.00	30.00	33.00	40.00	40.00	43.00
Zavol	18182	Socket Bushing	14.00	14.00	17.00	29.00	29.00	33.00

Orders should specify for what size and type of cord bushings are desired.

OUTLET BOXES.



No. 18183.



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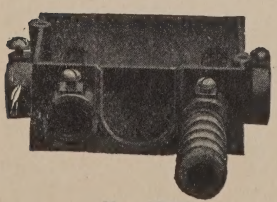
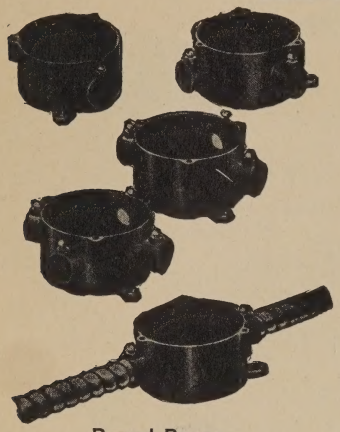


No. 18190.

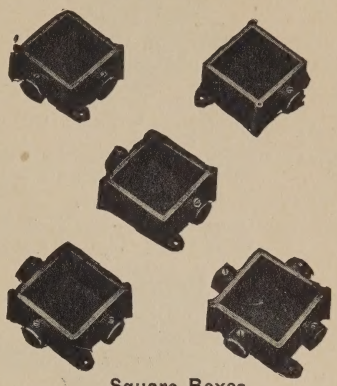
		Mfr. No.		List Price, Each.
Zavom	18183	5200	Ceiling Box for ½ inch Flexible Conduit	.27
Zavon	18184	5200A	Ceiling Box for ¾ inch Flexible Conduit	.33
Zavop	18185	5200½	Ceiling Box for Armored Conductors	.25
Zavor	18186	5201	Sidewall Box for ½ inch Flexible Conduit with Set Screws	.21
Zavot	18188	5201B	Sidewall Box for ¾ inch Flexible Conduit with Set Screws	.27
Zavow	18190	5211	Sidewall Box for ½ inch Flexible Conduit	.27
Zavox	18191	5212	Sidewall Box for No. 12 and No. 14 BX Conductors	.25
Zavoz	18192	5213	Combination Ceiling Box for ½ inch Flexible Conduit	.27
Zavu	18193	5214	Combination Ceiling Box for No. 12 and No. 14 BX Conductors	.25

SPRAGUE OUTLET BOXES.

JUNCTION AND OUTLET BOXES FOR FLEXIBLE STEEL CONDUIT AND ARMORED CONDUCTORS.



Round Boxes.



Square Boxes.

JUNCTION AND OUTLET BOXES FOR FLEXIBLE STEEL CONDUIT.

Code Word.	List No.	Mfr. No.		½ inch.	¾ inch.
Round Lined Boxes. Outside Dimensions: 4x1¾ Inches Deep. Inside: 3⅜x1½ Inches.					
Zatat	17968	5040	Angle Box	$ .30	$ .35
Zatav	17969	5041	1 Way Box	.26	.29
Zataw	17970	5042	2 Way Box	.30	.35
Zatax	17971	5043	3 Way Box	.34	.42
Zataz	17972	5044	4 Way Box	.38	.48
Round Lined Boxes. Outside Dimensions: 2⅞x1¾ Inches Deep. Inside: 2¼x1½ Inches.					
Zate	17973	5140	Angle Box	.26	.31
Zateb	17974	5141	1 Way Box	.23	.26
Zated	17975	5142	2 Way Box	.26	.31
Zatef	17976	5143	3 Way Box	.29	.37
Zateg	17977	5144	4 Way Box	.32	.42
Square Lined Boxes. Outside Dimensions: 3½x2 Inches Deep. Inside: 3¼x1⅞ Inches.					
Zateh	17978	5250	Angle Box	.37	.42
Zatek	17979	5251	1 Way Box	.33	.36
Zatel	17980	5252	2 Way Box	.37	.42
Zatem	17981	5253	3 Way Box	.41	.48
Zaten	17982	5254	4 Way Box	.45	.54

JUNCTION AND OUTLET BOXES FOR ARMORED CONDUCTORS.

				No. 14 or No. 12 BX Conductors.
Round Lined Boxes. Outside Dimensions: 4x1¾ Inches Deep. Inside: 3⅜x1½ Inches.				
Zatep	17983	5050	Angle Box	.30
Zater	17984	5051	1 Way Box	.26
Zates	17985	5052	2 Way Box	.30
Zatet	17986	5053	3 Way Box	.34
Zatev	17987	5054	4 Way Box	.38
Round Lined Boxes. Outside Dimensions: 2⅞x1¾ Inches Deep. Inside: 2¼x1½ Inches.				
Zatew	17988	5150	Angle Box	.26
Zatex	17989	5151	1 Way Box	.23
Zatez	17990	5152	2 Way Box	.26
Zati	17991	5153	3 Way Box	.29
Zatib	17992	5154	4 Way Box	.32
Square Lined Boxes. Outside Dimensions: 3½x2 Inches Deep. Inside: 3¼x1⅞ Inches.				
Zatid	17993	5260	Angle Box	.37
Zatif	17994	5261	1 Way Box	.33
Zatig	17995	5262	2 Way Box	.37
Zatih	17996	5263	3 Way Box	.41
Zatik	17997	5264	4 Way Box	.45

NOTE.—Over all dimensions: Outlets extend ⅝ inch beyond outside dimensions as given above.

The above Boxes are also furnished UNLINED, with a Black Japan Finish. For list prices of UNLINED Boxes deduct 4c. per box from above list prices.

For above Boxes with Fixture Support add 8c. per box to above list prices.

For above Boxes with outlets for larger size conductors up to and including No. 10 BX, add to list price 3c. per outlet. These boxes are furnished without covers unless so ordered.

SPRAGUE OUTLET BOXES.

TYPE "N" OUTLET BOXES.

FOR ½ INCH FLEXIBLE STEEL CONDUIT.

No. 18137.

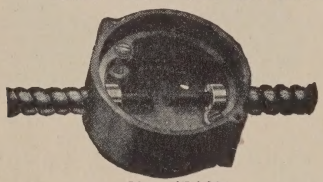
No. 18138.

Code Word.	List No.	Mfr. No.		Outside Dimension.	List Price, Each.
Zavaw	18136	5224	Electric only, 4-Way	3⅝x1⅛	$0.21
Zavax	18137	5225	Gas and Electric, 4-Way	3⅝x1⅛	.19

TYPE "O" BOXES.

For No. 12 and No. 14 BX Conductors.

Zavaz	18138	5234	Electric only, 4-Way	3x1⅛	.21
Zave	18139	5235	Gas and Electric, 4-Way	3x1⅛	.19



No. 18140.

No. 18142.

Zaveb	18140	1904	For No. 14 and No. No. 12 BX Conductors	.24
Zaved	18141	1905	For ½ inch Flexible Conduit	.24
Zavef	18142	5115	Outlet Bushing, for No. 14 or No. 12 BX Conductor, per 100	1.75

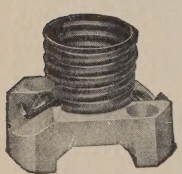
COVERS FOR OUTLET BOXES.

No. 18145.

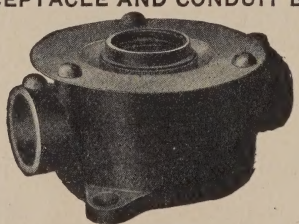
No. 18143.

Zaveg	18143	533	Cover for 2¼ inch Receptacle Box	.07
Zaveh	18144	534	Cover for 3⅜ inch Receptacle Box	.10
Zavek	18145	521	Cover for 2¼ inch Round Box	.06
Zavel	18146	522	Cover for 3⅜ inch Round Box	.08
Zavem	18147	523	Cover for 3¼ inch Square Box	.08

RECEPTACLE AND CONDUIT BRANCH BOXES.



No. 18150.



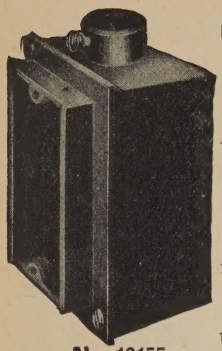
No. 18153.

No. 18151.

No. 18152.

Zaven	18148	533	Iron Receptacle Cover for No. 9397 Edison Base Receptacle	.07
Zavep	18149	799	Polished Brass Cover for No. 9397 Edison Base Receptacle	.16
Zaver	18150	9397	Edison Base Receptacle	.12
Zaves	18151	833	Wood Plugs to prevent accidental contact when receptacle is not in use	.06
Zavet	18152	834	Hard Rubber Screw Ring for No. 9397 Edison Base Receptacle	.04
Zavev	18153	838	Box complete with No. 9397 Edison Base Receptacle, polished brass cover and ring fitted. 2 outlets for ½ inch flexible steel conduit No. 14 or No. 12 type BX conductors	.74
Zavew	18154	838	Box complete with No. 9397 Edison Base Receptacle, No. 533 iron cover and ring fitted. 2 outlets for ½ inch flexible steel conduit or No. 14 or No. 12 type BX conductors	.65

SPRAGUE SWITCH BOXES.



No. 18155.

BOX FOR PUSH BUTTON FLUSH SWITCHES FOR USE WITH FLEXIBLE STEEL CONDUIT AND STEEL ARMORED CONDUCTORS.

The box, as illustrated, is designed for a single-pole flush switch. We manufacture these boxes for all makes of flush switches, either

Single-pole, Double-pole, and for Three or Four Wires.

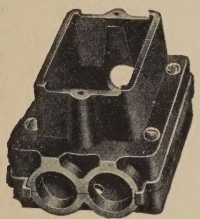
When ordering, please state the name of switch for which the box is intended.

Where the installation is to be made before the partition walls are erected, we place the outlets near the rear edge, on top, to clear the front wall of the terra cotta brick.

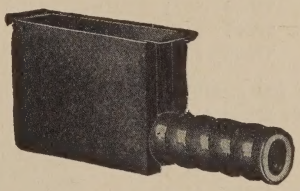
FOR ½ INCH FLEXIBLE STEEL CONDUIT OR NO. 14 OR NO. 12 TYPE BX CONDUCTORS.

Code Word.	List No.	Mfr. No.		Outside Dimensions. Width. Length. Height.	List Price. Each.
Zavex	18155	5981	Lined Box	3⅛x4⅝x3 1-16 in. for 1 switch, 2 outlets	$ .50
Zavez	18156	5982	Lined Box	4⅝x5x3 1-16 in. for 2 switches, 4 outlets	.95
Zavi	18157	5983	Lined Box	4⅝x6⅞x3 1-16 in. for 3 switches, 6 outlets	1.30
Zavib	18158	5984	Lined Box	4⅝x8 11-16x3 1-16 in. for 4 switches, 8 outlets	1.65
Zavid	18159	5985	Lined Box	4⅝x10½x3 1-16 in. for 5 switches, 10 outlets	1.90
Zavif	18160	5986	Lined Box	4⅝x12⅜x3 1-16 in. for 6 switches, 12 outlets	2.35
Zavig	18161	6981	Unlined Box	3⅛x 4⅝x3 1-16 in. for 1 switch, 2 outlets	.40
Zavih	18162	6982	Unlined Box	4⅝x 5 x3 1-16 in. for 2 switches, 4 outlets	.75
Zavik	18163	6983	Unlined Box	4⅝x 6⅞x3 1-16 in. for 3 switches, 6 outlets	1.10
Zavil	18164	6984	Unlined Box	4⅝x 8 11-16x3 1-16 in. for 4 switches, 8 outlets	1.45
Zavim	18165	6985	Unlined Box	4⅝x10½x3 1-16 in. for 5 switches, 10 outlets	1.80
Zavin	18166	6986	Unlined Box	4⅝x12⅜x3 1-16 in. for 6 switches, 12 outlets	2.15

Outlets extend ⅝ inch beyond dimensions as given above.



No. 18167.
Split Clamp Switch Box for New Buildings.
3½x4¾x2¾ in. deep.
Outside Dimensions.



No. 18169.
Door Switch Box.
1¼x2 9-16x3¾ in. deep.
Outside Dimensions.

Zavip	18167	5281	For ½ in. Flexible Conduit only, not made in gangs ..... .28
Zavis	18169	5950	For ½ in. Flexible Conduit ..... .26
Zavit	18170	5951	For No. 14 or No. 12 BX Conductors ..... .26

No. 18171. No. 18175.

Flexible Armored Cord Tee Branch—Flexible Connection.

				List Price. Each.
Zaviv	18171	5310	For No. 16 or No. 18 Cord Type E	.12
Zaviw	18172	5311	For No. 14 Cord Type E	.14

Prices on above fittings are for tee branches only.

Flexible Armored Cord Tee Branch—Rigid Connection.

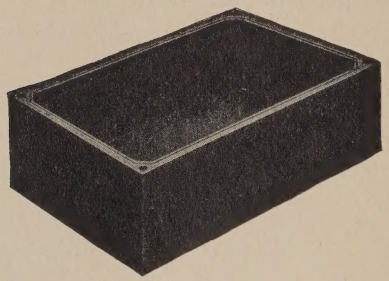
Zavo	18175	5312	For No. 16 or 18 Flex. Cord Type E	.19
Zavob	18176	5313	For No. 14 Cord Type E	.22

Prices on above fittings are for tee branches only.

SPRAGUE OUTLET BOXES.

MAIN JUNCTION AND TERMINAL BOX.

Made In Several Sizes, and Can Be Ordered with or Without Outlets.



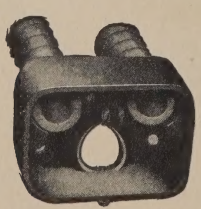
Code Word.	List No.	Mfr. No.	Inside Dimensions.	Outside Dimensions.	List Price, Each.
Zasux	17953	2504	12 x9 x3 inches, without outlets,	12¾x9½x3½ inches	$2.90
Zasuz	17954	2505	12 x4 x3 " " "	12¾x4¾x3½ "	1.90
Zata	17955	2506	10½x4 x3 " " "	11¼x4¾x3½ "	1.50
Zatab	17956	2507	9¼x6¼x3 " " "	10 x7 x3½ "	2.00
Zatad	17957	2508	8¼x5¼x3 " " "	9 x6 x3½ "	1.40
Zataf	17958	2509	6½x6½x2¾ " " "	7 x7 x3 "	1.05
Zatag	17959	2510	8½x3¾x3 " " "	9¼x4½x3¼ "	1.05
Zatah	17960	2511	7¼x3¾x3⅝ " " "	8 x4½x3¾ "	1.15
Zatak	17961	2512	5½x3¼x2⅞ " " "	6¼x4 x3 "	.90
Zatal	17962	2513	6½x6½x3¾ " " "	7 x7 x4 "	1.25

Outlets for flexible steel conduit for the above boxes can be furnished at list price per outlet as follows:

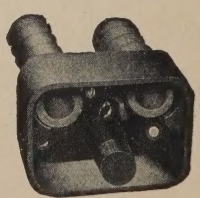
Zatar	17966	⅜ inch	.10
Zatas	17967	½ inch	.10
Zasuv	17951	¾ inch	.12
Zasuw	17952	1 inch	.15
Zatam	17963	1¼ inch	.20

Covers are not included in above prices.

TYPE N, OUTLET BOXES FOR 1-2 INCH FLEXIBLE STEEL CONDUIT.



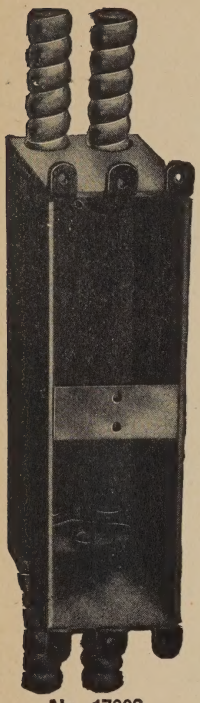
No. 17964.



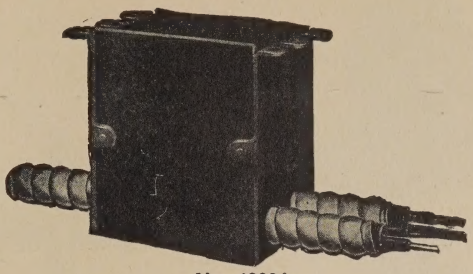
No. 17965.

Zatan	17964	5220	Gas and Electric, 2-Way, for ½-inch Flexible Conduit....	.15
Zatap	17965	5221	Electric only, 2-Way, for ½ inch Flexible Conduit....	.17

SPRAGUE SWITCH BOXES.



No. 17998.



No. 18084.

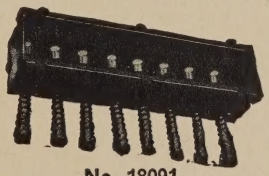
Outside Dimensions: 2 inches wide, 3⅛ inches long, 3½ inches deep.

TANDEM, FOR RECTANGULAR BASE FLUSH SWITCHES.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zatil	17998	5960	2 Gang Tandem Switch Box with outlets for No. 14 or No. 12 type BX conductors.....	$1.00
Zatim	17999	5965	2 Gang Tandem Switch Box with outlets for ½ inch flexible conduit..	1.00

Over all dimensions: 7½ inches long, 2⅛ inches wide, 3½ inches deep.

SWITCH BOXES FOR ½ INCH FLEXIBLE STEEL CONDUIT.



No. 18091.

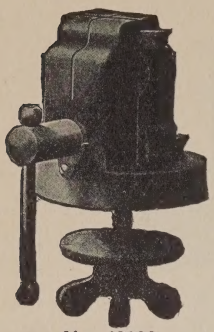
Eight Gang Box.

				Outside Dimensions. Width.	Length.	Height.	
Zatin	18076	5971	Box for 1 switch.....	2¼	3⅛	3½	.30
Zatip	18077	5972	Box for 2 switches.....	3⅝	4¼	3¾	.60
Zatir	18078	5973	Box for 3 switches.....	3⅝	6	3¾	.90
Zatis	18079	5974	Box for 4 switches.....	3⅝	7 15/16	3¾	1.20
Zatit	18080	5975	Box for 5 switches.....	3⅝	9⅝	3¾	1.50
Zativ	18081	5976	Box for 6 switches.....	3⅝	11 9/16	3¾	1.80
Zatiw	18082	5977	Box for 7 switches.....	3⅝	13 5/16	3¾	2.10
Zatix	18083	5978	Box for 8 switches.....	3⅝	15 1/16	3¾	2.40

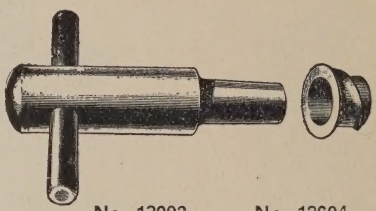
SWITCH BOXES FOR NO. 14 OR NO. 12 TYPE BX CONDUCTORS.

Zatiz	18084	5991	Box for 1 switch.....	2	3⅛	3½	.30
Zato	18085	5992	Box for 2 switches.....	3⅝	4¼	3¾	.60
Zatob	18086	5993	Box for 3 switches.....	3⅝	6	3¾	.90
Zatod	18087	5994	Box for 4 switches.....	3⅝	7 15/16	3¾	1.20
Zatof	18088	5995	Box for 5 switches.....	3⅝	9⅝	3¾	1.50
Zatog	18089	5996	Box for 6 switches.....	3⅝	11 9/16	3¾	1.80
Zatoh	18090	5997	Box for 7 switches.....	3⅝	13 5/16	3¾	2.10
Zatok	18091	5998	Box for 8 switches.....	3⅝	15 1/16	3¾	2.40

SPRAGUE CONDUIT TOOLS.



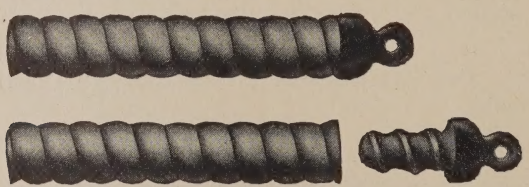
No. 18092.



No. 18093. No. 18094.

Code Word.	List No.	Mfr. No.		Diameter. ⅜	½	¾	1	1¼	½	2
Zatol	18092	5307	Vise for holding Conduit. List Price, Each...$2.15							
Zatom	18093		Bushing Tools, No. 5300. List Price, Each.....	$0.22	$0.22	$0.30	$0.35	$0.50	$0.75	$1.00
Zaton	18094		Lead Bushings, No. 5320. List Price, per 100.....	.90	.95	1.30	1.70	2.50	5.00	7.50

FISH PLUGS.



These fish plugs will be furnished free on application and will be found very useful in placing the conduit in finished buildings where it is desired to fish the tubes under floors or in partitions.

After the conduit has been cut off square in the special vise the fish plug should be screwed into the tube and the fish wire or drawing-in line should then be attached to the eyelet on the outer end of the plug.

Zatop	18095	Fixture Supports, per 100.....	4.00
Zator	18096	Staples, all sizes, per pound.....	.20
Zatos	18097	Pipe Straps, per pound.....	.25
Zatot	18098	Fishing Wire, per 100 ft.....	1.40

No. 18099.

No. 18100.

			List Price, Each.
Zatov	18099	Cord Armor Cutter.....	.40
Zatow	18100	Armor Cutter for Steel Armored Conductors.....	.70

TO REMOVE THE ARMOR.

Clamp conductors firmly in the armor cutter and with a pair of cutting pliers back the armor off, one strip at a time, to the point of contact with the cutting edge of the tool.

INSULATING SUNDRIES.

ELECTRICAL MICA.

UNCUT SHEET MICA, SELECTED TO CUT SPECIFIED SIZES.

We make a specialty of selecting from sheet mica pieces that will cut specified or special sizes. We are very careful in selecting, so that all pieces will cut patterns with but very little waste. We carry in stock the folowing sizes:

Grade No. A 1.

Will cut assorted sizes: 4 to 8 in. wide; 8 to 10 in. long, or 35 to 47 sq. in.

Code Word.	List No.	List Price, per Lb.
Zuvos	46565	$6.00

Grade No. 1.

Will cut assorted sizes: 3 to 6 in. wide, 6 to 9 in. long, or 24 to 35 sq. in.

Zuvot	46566	5.00

Grade No. 2.

Will cut assorted sizes: 2 to 4 in. wide, 5 to 8 in. long, 15 to 24 sq. in.

Zuvov	46567	4.00

Grade No. 3.

Will cut assorted sizes: 2 to 3½ in. wide, 4 to 6 in. long, or 10 to 15 sq. in.

Zuvow	46568	3.00

Grade No. 4.

Will cut assorted sizes: 1 to 3½ in. wide, 2½ to 4 in. long, or 6 to 10 sq. in.

Zuvox	46569	2.00

AMBER MICA, SOFT GREEN.

Zuwa	46588	Prices on Application

CUT MICA.

FOR ELECTRICAL PURPOSES.

Inches.	Per Lb.	Inches.	Per Lb.	Inches.	Per Lb.	Inches.	Per Lb.
2x2	$0.85	3x3¼	$3.00	4x 4	$7.00	6x 7	$10.50
2x2¼	.85	3x3½	3.50	4x 4½	7.25	6x 8	10.75
2x2½	.90	3x3¾	4.00	4x 5	7.75	6x 9	11.00
2x2¾	.95	3x4	5.00	4x 5½	8.50	6x10	11.50
2x3	1.00	3x4¼	5.25	5x 5	8.50	6x11	12.00
2x3¼	1.05	3x4½	6.00	5x 5½	9.00	6x12	14.00
2x3½	1.15	3x4¾	6.50	5x 6	9.50	7x 7	10.75
2x3¾	1.25	3x5	7.00	5x 6½	9.75	7x 7½	10.75
2x4	1.45	3x5½	7.50	5x 7	10.00	7x 8	11.00
2x4¼	1.50	3x6	8.00	5x 8	10.25	7x 9	11.25
2x4½	1.65	3x6½	8.25	5x 9	10.50	7x10	12.00
2x4¾	1.75	4x6	9.00	5x10	11.00	7x11	12.50
2x5	2.00	4x6½	9.25	5x11	12.00	8x 8	12.00
2x5½	2.65	4x7	9.50	5x12	13.50	8x 9	12.50
2x6	3.25	4x8	9.75	6x 6	10.00	8x10	13.00
3x3	2.75	4x9	10.00	6x 6½	10.25		

Other sizes of Cut Mica furnished to order at proportionate prices.

All grades of Mica, for every purpose. Stamped solid sheet segments, washers, rheostat, etc. Built up Mica segments, washers and rings, any pattern or size, gauged to thickness, ready for use.

MICANITE SPECIALTIES.

Flexible plate in sheets 32x32 in.; taper and band rings for generators and motors; Micanite segments, cylinders, cloth and paper. Prices on application.

ELECTRIC SLATE AND MARBLE.

Plain, Black or Marbleized Slate, and Vermont, Tennessee or Italian Marble, for switchboards and all electrical appliances, cut to any size or shape desired from patterns or drawings.

Prices quoted upon application, stating kind and dimensions.

OILED PAPERS.

		Grade of Stock.	Size of Sheets.	Thickness.	
Zuvuw	46585	Manilla Rope Paper	36 x 72 in.	.004½ per yard	.18
Zuvux	46586	Bond Paper	19 x 24 in.	.005 per sheet	.12
Zuvuz	46587	Bond Paper	22 x 34 in.	.005 per sheet	.20

P. AND B. COMPOUNDS AND TAPE.

No. 1 is used where an almost immediate drier and greatest amount of penetration possible is desired. No. 1 leaves less surface coat than No. 2.

FOR ALL GENERAL USES THE NO. 2 COMPOUND IS USED.

NO. 1.

Code Word.	List No.		List Price, Per Gallon.
Zikud	40068	Bbls. of about 50 gallons	$1.50
Zikuf	40069	½ bbls., 30 gallons	1.55
Zikug	40070	5 or 10 gallon cans	1.60
Zikuh	40071	2½ gallon cans—2 in a case	1.65
Zikuk	40072	1 gallon cans—6 in a case	1.75
Zikul	40073	½ gallon cans—10 in a case	1.85
Zikum	40074	Quart and pint cans	2.25

NO. 2.

Zikun	40075	Bbls. of about 50 gallons	1.25
Zikup	40076	½ bbls., 30 gallons	1.35
Zikur	40077	5 or 10 gallon cans	1.40
Zikus	40078	2½ gallon cans—2 in a case	1.45
Zikut	40079	1 gallon cans—6 in a case	1.50
Zikuv	40080	½ gallon cans—10 in a case	1.60
Zikuw	40081	Quart cans	2.00

S. P. C. FLEXIBLE IRON PAINT.

Zaderur	40035	Bbls. of about 50 gallons	.75
Zaderus	40036	½ bbls. of about 30 gallons	.80
Zaderut	40037	10 gallon packages	.90
Zaderuv	40038	5 gallon cans	.95
Zaderuw	40039	1 gallon cans—6 in a case	1.00
Zaderux	40040	½ gallon cans—10 in a case	1.10
Zaderuy	40041	1 quart cans—10 in a case	1.20

S. P. C. ARMATURE AND FIELD COIL VARNISH.

Zilad	40086	Bbls. of about 50 gallons	2.90
Zilaf	40087	½ bbls., 25 to 30 gallons	3.00
Zilag	40088	5 or 10 gallon cans	3.25
Zilah	40089	2½ gallon cans—2 in a case	3.35
Zilak	40090	1 gallon cans—6 in a case	3.50
Zilal	40091	½ gallon cans—10 in a case	3.75
Zilam	40092	Quart cans—12 in a case	4.00

P. & B. INSULATING TAPE.

Zilan	40093	1 lb. boxes, 1 in. wide	.....
Zilap	40094	½ lb. boxes, ¾ in. wide	.....
Zilar	40095	½ lb. boxes, ½ in. wide	.....

P. & B. ELECTRICAL INSULATING VARNISHES.

P. & B. CLEAR BAKING VARNISH.

Code Word.	List No.		List Price, Per Gallon.
Zadesab	5643	Bbls. of about 50 gallons	$1.60
Zadesac	5644	½ bbls., 30 gallons	1.65
Zadesad	5645	10 gallon cans	1.70
Zadesaf	5646	5 gallon cans	1.75
Zadesag	5647	1 gallon cans—6 in a case	1.85
Zadesah	5648	½ gallon cans—10 in a case	1.90
Zadesak	5649	Quart cans—10 in a case	2.00

P. & B. BLACK BAKING VARNISH.

Zadesal	5650	Bbls. of about 50 gallons	1.40
Zadesam	5651	½ bbls., 30 gallons	1.45
Zadesan	5652	10 gallon cans	1.50
Zadesap	5653	5 gallon cans	1.55
Zadesar	5654	1 gallon cans—6 in a case	1.65
Zadesas	5655	½ gallon cans—10 in a case	1.70
Zadesat	5656	Quart cans—10 in a case	1.80

P. & B. FINISHING VARNISH.

Zadesav	5657	Bbls. of about 50 gallons	2.25
Zadesaw	5658	½ bbls., 30 gallons	2.30
Zadesax	5659	10 gallon cans	2.35
Zadesay	5660	5 gallon cans	2.40
Zadesaz	5661	1 gallon cans—6 in a case	2.50
Zadese	5662	½ gallon cans—10 in a case	2.55
Zadeseb	5663	Quart cans—10 in a case	2.65

P. & B. AIR-DRYING VARNISH.

Zadesec	5664	Bbls. of about 50 gallons	.85
Zadesed	5665	½ bbls., 30 gallons	.90
Zadesef	5666	10 gallon cans	.95
Zadeseg	5667	5 gallon cans	1.00
Zadeseh	5668	1 gallon cans—6 in a case	1.10
Zadesek	5669	½ gallon cans—10 in a case	1.15
Zadesel	5670	Quart cans—10 in a case	1.25

P. & B. BAKING CORE-PLATE VARNISH.

Zadesem	5671	Bbls. of about 50 gallons	1.50
Zadesen	5672	½ bbls., 30 gallons	1.55
Zadesep	5673	10 gallon cans	1.60
Zadeser	5674	5 gallon cans	1.65
Zadeses	5675	1 gallon cans—6 in a case	1.75
Zadeset	5676	½ gallon cans—10 in a case	1.80
Zadesev	5677	Quart cans—10 in a case	1.90

P. & B. AIR-DRYING CORE-PLATE VARNISH.

Zadesew	5678	Bbls. of about 50 gallons	.85
Zadesex	5679	½ bbls., 30 gallons	.90
Zadesey	5680	10 gallon cans	.95
Zadesez	5681	5 gallon cans	1.00
Zadesi	5682	1 gallon cans—6 in a case	1.10
Zadesib	5683	½ gallon cans—10 in a case	1.15
Zadesic	5684	Quart cans—10 in a case	1.25

P. & B. ARMATURE AND FIELD COIL VARNISH.

Zadesid	5685	Bbls. of about 50 gallons	2.90
Zadesif	5686	½ bbls., 30 gallons	3.00
Zadesig	5687	5 or 10 gallon cans	3.25
Zadesih	5688	2½ gallon cans—2 in a case	3.35
Zadesik	5689	1 gallon cans—6 in a case	3.50
Zadesil	5690	½ gallon cans—10 in a case	3.75
Zadesim	5691	Quart cans—12 in a case	4.00

INSULATING SUNDRIES.

RODS AND SHEETS.

HARD RUBBER SHEETS.

Size of sheets, 21 x 25 inches.

Code Word.	List No.	Thickness	Approximate Weight of full sheet.	List Price Per lb.
Zuvaf	46502	1-32-in.	1½ lb.	$2.10
Zuvag	46503	1-16-in.	2¾ lb.	2.00
Zuvah	46504	3-32-in.	3⅞ lb.	2.00
Zuvak	46505	1-10-in.	4⅝ lb.	2.00
Zuval	46506	⅛-in.	5½ lb.	2.00
Zuvam	46507	5-32-in.	6 lb.	2.00
Zuvan	46508	3-16-in.	7½ lb.	2.00
Zuvap	46509	¼-in.	10½ lb.	2.00
Zuvar	46510	5-16-in.	13¼ lb.	2.00
Zuvas	46511	⅜-in.	16½ lb.	2.00
Zuvat	46512	7-16-in.	18¾ lb.	2.00
Zuvav	46513	½-in.	22 lb.	2.00
Zuvaw	46514	9-16-in.	24 lb.	2.00
Zuvax	46515	⅝-in.	27 lb.	2.00
Zuvaz	46516	¾-in.	32 lb.	2.00
Zuve	46517	⅞-in.	35 lb.	2.00
Zuveb	46518	1 -in.	40 lb.	2.00
Zuved	46519	1¼-in.	50 lb.	2.00

HARD RUBBER RODS.

In Lengths of 30 Inches.

		Diam.	Approximate Weight per 100 feet.	
Zuvef	46520	⅛ in.	¾ lb.	3.70
Zuveg	46521	3-16 in.	1½ lb.	3.40
Zuveh	46522	¼ in.	2¾ lb.	2.56
Zuvek	46523	5-16 in.	4 lb.	2.00
Zuvel	46524	⅜ in.	6⅛ lb.	2.00
Zuvem	46525	7-16 in.	8 lb.	2.00
Zuven	46526	½ in.	10¼ lb.	2.00
Zuvep	46527	9-16 in.	12¾ lb.	2.00
Zuver	46528	⅝ in.	16 lb.	2.00
Zuves	46529	11-16 in.	19¼ lb.	2.00
Zuvet	46530	¾ in.	22¾ lb.	2.00
Zuvev	46531	13-16 in.	27¾ lb.	2.00
Zuvew	46532	⅞ in.	29¼ lb.	2.00
Zuvex	46533	15-16 in.	36½ lb.	2.00
Zuvez	46534	1 in.	42 lb.	1.80
Zuvi	46535	1¼ in.	65½ lb.	1.80
Zuvib	46536	1½ in.	92½ lb.	1.80
Zuvid	46537	1¾ in.	128 lb.	1.80

VULCANIZED FIBRE ROD.

Red, Random Lengths.

Zuvif	46538	¼-inch	.30
Zuvig	46539	5-16-inch	.32
Zuvih	46540	⅜-inch	.36
Zuvik	46541	13-32-inch	.44
Zuvil	46542	7-16-inch	.46
Zuvim	46543	½-inch	.52
Zuvin	46544	17-32-inch	.60
Zuvip	46545	9-16-inch	.65
Zuvir	46546	⅝-inch	.70
Zuvis	46547	11-16-inch	.84
Zuvit	46548	¾-inch	1.00
Zuviv	46549	⅞-inch	1.20
Zuviw	46550	1 -inch	1.50
Zuvix	46551	1¼-inch	2.50
Zuviz	46552	1⅜-inch	4.00

Black fibre can be furnished on application.

VULCANIZED FIBRE SHEET.

Size of sheets 22 x 34 and 34 x 44 inches.

INDIAN RED OR BLACK.

For convenience in shipping we prefer to cut sheets in halves or quarters.

RED.

Zuvo	46553	1-100	.55
Zuvob	46554	1-64	.44
Zuvod	46555	1-32	.40
Zuvof	46556	1-16	.33
Zuvog	46557	⅛	.33
Zuvoh	46558	¼	.33
Zuvok	46559	½	.33
Zuvol	46560	9-16	.40
Zuvom	46561	¾	.40
Zuvon	46562	⅞	.55
Zuvop	46563	1	.55
Zuvor	46564	1¼	.66

Black, 5 cents per pound advance. Above 1¼ in. and for special sizes, special prices will be quoted on application.

INSULATING SUNDRIES.

TUBING.

COMPOSITION HARD RUBBER TUBING.

In Lengths of 24 Inches.

Code Word.	List No.	Outside Diam.	Inside Diam.	Approx. No. Ft. per lb.	List price. per lb.
Zutit	46458	3/8-inch	1/8-inch	20	$ .50
Zutlv	46459	1/2-inch	1/4-inch	14	.50
Zutiw	46460	1/2-inch	5-16-inch	16	.50
Zutix	46461	5/8-inch	3/8-inch	10	.50
Zutiz	46462	3/4-inch	1/2-inch	8	.50
Zuto	46463	7/8-inch	5/8-inch	8	.50
Zutob	46464	1 -inch	3/4-inch	6	.50
Zutod	46465	1 1/8-inch	7/8-inch	6	.50

SOFT RUBBER TUBING.

		Inside Diam.	Covers Wire.	Approx. No. of Feet per lb.	
Zutof	46466	1/8-inch	No. 20 B. & S.	100	1.00
Zutog	46467	3-16-inch	No. 14 B. & S.	50	.75
Zutoh	46468	1/4-inch	No. 10 B. & S.	20	.75
Zutok	46469	5-16-inch	No. 6 B. & S.	15	.75
Zutol	46470	3/8-inch	No. 4 B. & S.	12	.75
Zutom	46471	1/2-inch	No. 0 B. & S.	9	.75
Zuton	46472	1-16-inch	No. 36 B. & S.	—	1.50

VULCANIZED FIBRE TUBING.

		Inside Diam.	1-16 in.	3-32 in.	1/8-in.	5-32 in.	3-16 in.	1 1/4-in.
Zutop	46473	1/4-inch	$ .20	$ .28	$ .36	$ .50	$ .52	
Zutor	46474	3/8-inch	.22	.32	.42	.52	.62	
Zutos	46475	1/2-inch	.24	.36	.48	.60	.72	.96
Zutot	46476	5/8-inch	.28	.42	.56	.70	.82	1.12
Zucov	46477	3/4-inch	.32	.48	.64	.80	.96	1.28
Zutow	46478	1 -inch	.40	.60	.80	1.00	1.20	1.60
Zutox	46479	1 1/4-inch	.48	.72	.96	1.20	1.44	1.92
Zutoz	46480	1 1/2-inch	.56	.84	1.16	1.40	1.68	2.24

HARD RUBBER FLEXIBLE.

Zutu	46481	1/4-inch I. D. 3-64 inch shell	.20
Zutub	46482	5-16-inch I. D. 3-64 inch shell	.22
Zutud	46483	3/8-inch I. D. 1-16 inch shell	.23
Zutuf	46484	1/2-inch I. D. 1-16 inch shell	.25
Zutug	46485	5/8-inch I. D. 1-16 inch shell	.27
Zutuh	46486	3/4-inch I. D. 1-16 inch shell	.35

PRESS OR FULLER BOARD.

A paper for insulating purposes. Finished with highly glazed surface. The sizes listed are those most frequently used in armature and other repair work. Any special thickness made to order.

			List Price per lb.
Zutuk	46487	Size of Sheet, 17 x 28 inches, thickness, .011 inch	
Zutul	46488	" 21 x 31 " " .013 "	
Zutum	46489	" 26 x 40 " " .015 "	On
Zutun	46490	" 24 x 32 " " .027 "	Application.
Zutup	46491	" 33 x 48 " " .029 "	
Zutur	46492	" 32 x 39 " " .034 "	

IMPROVED PAPER SLEEVES.

		Style.	Dimensions.	
Zutus	46493	2 1/2 A	1/8 in. x 2 1/2 in., per 1000	$1.50
Zutut	46494	3 B	3-16 in. x 3 in., per 1000	1.50
Zutuv	46495	3 C	7-32 in. x 3 in., per 1000	1.50
Zutuw	46496	18 A	1/8 in. x 18 in, per 1000	7.50
Zutux	46497	18 B	3-16 in. x 18 in., per 1000	7.50
Zutuz	46498	18 C	7-32 in. x 18 in., per 1000	7.50

ASBESTOS.

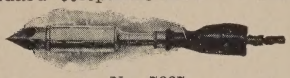
			List Price per lb.
Zuva	46499	Asbestos in rolls 1-16 inch and under	$ .15
Zuvab	46500	Asbestos in rolls 1-16 inch to 1/8 inch	.20
Zuvad	46501	Asbestos mill boards in sheets 40 in. x 40 in. x 1/8 in. thick	.22

AMERICAN HEATING APPARATUS.

SOLDERING IRONS.

No. 7666.

Code Word.	List No.	Mfr. No.		Weight.	Length.	Watts.	List Price, Each.
Zadawib	7666	3111	Standard telephone iron....	15 oz.	13 in.	95	$9.25



No. 7667.

Zadawic	7667	3110	For small light work.....	1 lb.	12 in.	100	9.25

No. 7668.

Zadawid	7668	3108	Light telephone iron.....	10 oz.	11 in.	90	9.25

No. 7669.

Zadawif	7669	3120	For light work.....	1½ lbs.	12 in.	150	9.25

No. 7670.

Zadawig	7670	3121	Light constant work.....	1½ lbs.	13 in.	130	9.25

No. 7671.

Zadawih	7671	3130	For medium work.....	2½ lbs.	14 in.	300	11.00

No. 7672.

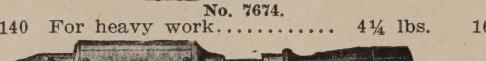
Zadawik	7672	3131	For light work.....	2 lbs.	14 in.	240	11.00

No. 7673.

Zadawil	7673	3132	For light pattern work.....	1¾ lbs.	14 in.	270	11.00

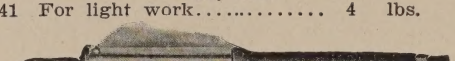
No. 7674.

Zadawim	7674	3140	For heavy work.....	4¼ lbs.	16 in.	425	16.00



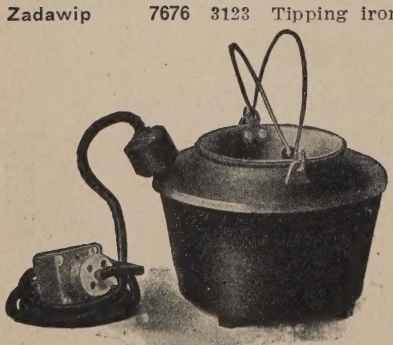
No. 7675.

Zadawin	7675	3141	For light work.....	4 lbs.	16 in.	400	16.00



No. 7676.

Zadawip	7676	3123	Tipping iron.....	1¾ lbs.	9 in.	150	9.50



No. 7681.

SOLDER POTS.

			Capacity.	Watts.	Wt.	
Zadawir	7677	165	5 lbs.	250	9	12.50
Zadawis	7678	166	10 lbs.	450	10	18.50
Zadawit	7679	167	20 lbs.	900	16	24.00
Zadawiv	7680	177	50 lbs.	1500	25	30.00

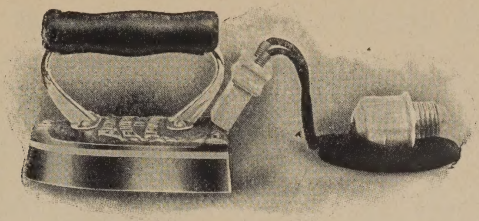
Are furnished complete with regulating switches directly attached. No cords or plugs are supplied.

GLUE POTS.

Zadawiw	7681	141	1 qt.	450	13 lbs.	20.00
Zadawix	7682	143	2 qts.	650	23 lbs.	23.00

Are furnished complete, with six feet of flexible conductor and porcelain 3 heat plug switch.

AMERICAN "STEEL CLAD" IRONS.



No. 5398.

LAUNDRY IRONS.

TRAVELERS' IRON.

Code Word.	List No.	Mfr. No.	Voltage.	Weight.	Length.	Width.	Watts.	Elements.	List Price, Each.
Zadawiy	5396	3L	0-125	3 lbs.	5½ in.	2¾ in.	250	$3.00	$8.50
Zadawiz	5397	3L	125-250	3 lbs.	5½ in.	2¾ in.	250	3.50	9.00

FOR LIGHT WORK.

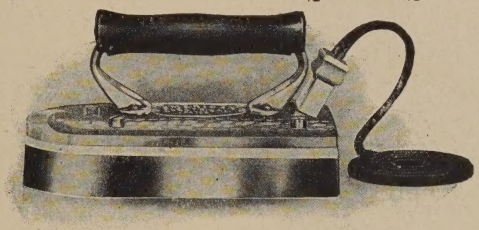
Zadawo	5398	5L	0-125	5 lbs.	5¾ in.	3⅜ in.	350	3.00	9.00
Zadawob	5399	5L	125-250	5 lbs.	5¾ in.	3⅜ in.	350	4.00	10.00

HOUSEHOLD AND LAUNDRY IRON.

Zadawoc	5400	7L	0-125	7 lbs.	5⅞ in.	3⅞ in.	450	3.00	9.00
Zadawod	5401	7L	125-250	7 lbs.	5⅞ in.	3⅞ in.	450	4.00	10.00

FOR PUBLIC LAUNDRY USE. HEAVY WORK.

Zadawof	5402	9L	0-125	9 lbs.	6½ in.	4¼ in.	700	4.00	11.50
Zadawog	5403	9L	125-250	9 lbs.	6½ in.	4¼ in.	700	5.00	12.50



No. 5404.

PRESSING IRONS.

FOR LIGHT WORK, LADIES' TAILORING.

Zadawoh	5404	12P	0-125	12 lbs.	9½ in.	3¼ in.	625	6.00	16.50
Zadawok	5405	12P	125-250	12 lbs.	9½ in.	3¼ in.	625	7.00	17.50

LIGHT MERCHANT TAILORS' IRON.

Zadawol	5406	16P	0-125	16 lbs.	9½ in.	3¼ in.	625	6.00	18.00
Zadawom	5407	16P	125-250	16 lbs.	9½ in.	3¼ in.	625	7.00	19.00
Zadawon	5408	16V	0-125	16 lbs.	8½ in.	5⅝ in.	1100	7.00	19.00
Zadawop	5409	16V	125-250	16 lbs.	8½ in.	5⅝ in.	1100	8.00	20.00

STANDARD MERCHANT TAILORS IRON.

Zadawor	5410	20P	0-125	20 lbs.	11 in.	3¾ in.	700	6.50	20.00
Zadawos	5411	20P	125-250	20 lbs.	11 in.	3¾ in.	700	7.50	21.00
Zadawot	5412	20V	0-125	20 lbs.	8½ in.	5⅝ in.	1100	7.00	20.50
Zadawov	5413	20V	125-250	20 lbs.	8½ in.	5⅝ in.	1100	8.00	21.50

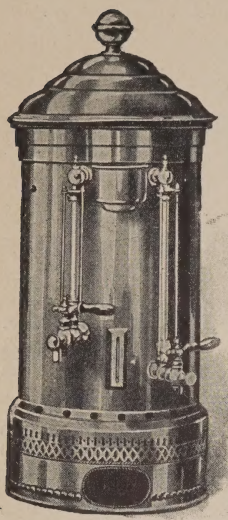
MANUFACTURERS' IRON.

Zadawow	5414	20HP	0-125	20 lbs.	11 in.	3¾ in.	1100	7.00	20.50
Zadawox	5415	20HP	125-250	20 lbs.	11 in.	3¾ in.	1100	8.00	21.50
Zadawoy	5416	24HP	0-125	24 lbs.	11 in.	4 in.	1100	7.00	21.50
Zadawoz	5417	24HP	125-250	24 lbs.	11 in.	4 in.	1100	8.00	22.50

"Steel Clad" Elements have no wire wound heating coils. They are practically one solid mass of steel. Heating elements instantly removable. Detachable cords. Stands all furnished with iron.

We do not furnish "Steel Clad" Irons with automatic handle switch.

AMERICAN HEATING APPARATUS.



No. 7758.

COFFEE URNS.

These urns are very handsome and are made in the best possible manner of heavy copper. The coffee receptacles are of stoneware. It is a well known fact that coffee will not keep properly in anything but a stone or earthenware vessel. The urns are fitted with double gauge glasses, faucets, thermometers, etc., and are finished in polished nickel.

The receiver with cotton fabric filter is simple and easily arranged. It will do the work perfectly.

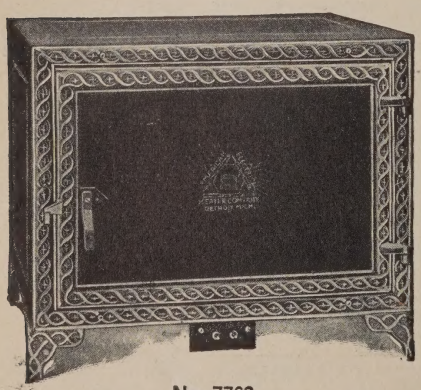
The heating is accomplished by means of immersion heaters placed in the water compartment surrounding the earthenware vessel. All the heat generated is absorbed by the water, thus producing very economical results.

Code Word.	List No.	Mfr. No.	Capacity.	Max. Watts.	List Price, Each.
Zadavas	7758	4420	10 quarts	1500	$95.00
Zadavat	7759	4430	14 quarts	2000	110.00
Zadavaw	7760	4440	22 quarts	3000	140.00
Zadavax	7761	4450	36 quarts	4000	170.00

EXTRA IMMERSION HEATERS.

Zadavay	7769	For No. 7758.....	24.00
Zadavaz	7770	For No. 7759.....	30.00
Zadave	7771	For No. 7760.....	48.00
Zadaveb	7772	For No. 7761.....	60.00

Prices on double compartment urns on application.



No. 7762.

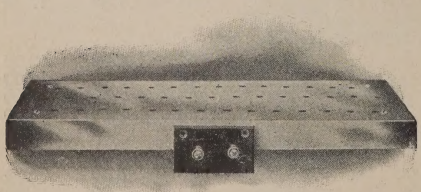
PLATE WARMERS.

PORTABLE TYPE.

Furnished complete, finished in antique copper, with six ft. detachable cord with plug contacts and separable lamp socket attachment plug.

18x18x14 Inches.

Zadavec	7762	440	300	30.00



No. 7763.

SPECIAL FLAT HEATERS.

For Hot Closets, Warming Ovens, etc.

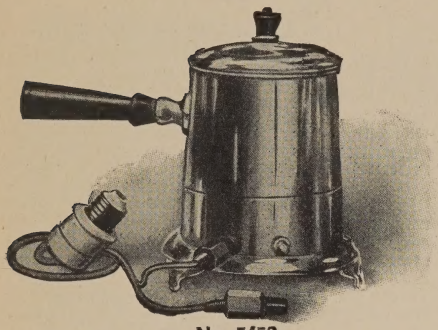
In ordering heaters, specify the width, depth and height of the closet to be heated, and in selecting a heater base the size on the data given below. This data will be found correct providing closets have only a normal exposure and are properly lined with asbestos.

In wiring for these heaters, two indicating snap switches are usually connected in circuit and are conveniently placed so that they may be readily operated. By turning on one switch, minimum heat is obtained; by turning on the other the medium heat; and by turning on both of them, the maximum heat.

			Having Area not Over	Max. Watts.	Capacity to Heat Space Containing	
Zadaved	7763	6510	144 sq. in.	300	1½ cubic feet.	22.00
Zadavef	7764	6520	220 sq. in.	450	3 cubic feet	25.00
Zadaveg	7765	6530	300 sq. in.	750	3 to 6 cubic feet	30.00
Zadaveh	7766	6550	450 sq. in.	900	6 to 9 cubic feet	34.00
Zadavek	7767	6570	650 sq. in.	1500	9 to 16 cubic feet	40.00
Zadavel	7768	6590	900 sq. in.	2500	16 to 24 cubic feet	50.00

The heaters are furnished complete and are properly enclosed in perforated metal casings. They are all arranged for three heats and are supplied with binding posts to which the feed wires may be attached. The casings are usually finished in nickel.

AMERICAN HEATING APPARATUS.



No. 5453.

WATER HEATERS.

These heaters are very handsome in design, are beautifully finished, and are made in the best possible manner. They are made of spun copper, are finished in polished nickel and are silver lined. The handles are ebonoid, and are removable.

Code Word.	List No.	Mfr. No.	Capacity.	Watts.	List Price, Each.
Zadavem	5452	5205	1 pint	275	$10.00
Zadaven	5453	5215	1 quart	400	12.00
Zadavep	5453	Nursery bottles, extra			1.00

COFFEE PERCOLATOR.

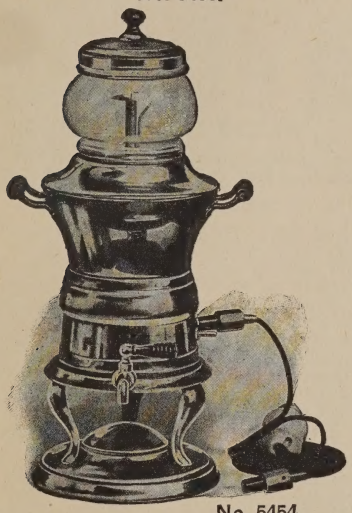
This is a spray urn of the French type, and is similar to those on the market heated by alcohol, but is far superior, as the electric heater does away with all the dirt, fire, danger and annoyance attendant upon the use of the ordinary affair.

These percolators are ordinarily finished in polished nickel; however, on special order, we can finish them in either polished copper or silver.

This urn is made in the best possible manner, of spun copper, is finished in polished nickel, silver lined and has ebonoid handles. It should not be confused with some of the cheaper alcohol percolators which are made of light metal and finished in an ordinary manner.

Zadaver	5454	5315	3 pints	400	23.00
Zadaves	5455	Same in silver plate			35.00
Zadavet	5456	Extra glass globes..			.90

Can also be furnished in polished copper at same price as nickel, but not carried in stock, and made up on special order only.



No. 5454.

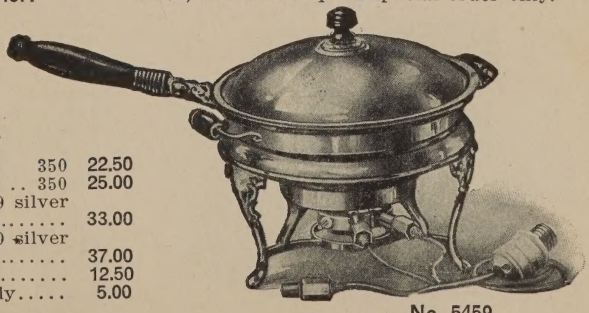
TEA KETTLES.

They are very handsome in design, made of spun copper with heavy cast handles, silver lined, and finished in polished nickel or silver. No expense has been spared in order to make this device perfect. It is a fitting ornament for any tea table.

Zadavev	5457	5415	1 quart	400	15.00
Zadavew	5458	5420	Same in silver plate		23.00

Can also be furnished in polished copper at same prices as nickel, but not carried in stock, and made up on special order only.

No. 5457.



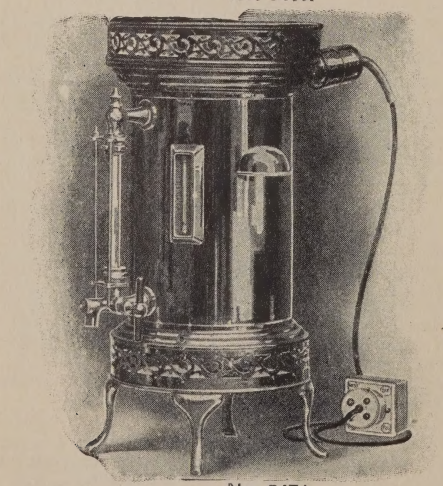
No. 5459.

CHAFING DISH.

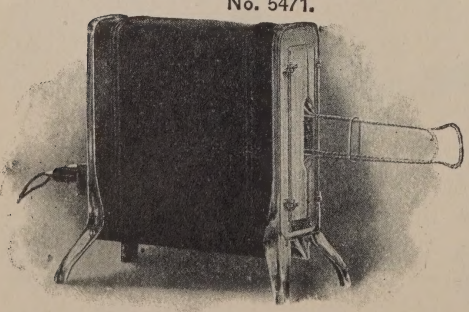
Zadavex	5459	335	2 pints 350	22.50
Zadavey	5460	345	3 pints .. 350	25.00
Zadavez	5461	Same as 5459 silver plated		33.00
Zadavi	5462	Same as 5460 silver plated		37.00
Zadavib	5463	Heater only.....		12.50
Zadavic	5464	Top plate only.....		5.00

Can also be furnished in polished copper at same prices as nickel, but not carried in stock, and made up on special order only.

No. 5466.



No. 5471.



No. 5477.

AMERICAN HEATING APPARATUS.

WARMING PADS.

The pad is constructed with the heating element completely surrounded by asbestos, and with a thermostat in the body, which automatically cuts off the current when the temperature rises beyond a safe point, and automatically turns on the current when the heat goes below. Some of the pads are arranged for three heats, so that it is possible to maintain a mild heat, medium heat, or full heat. Imagine doing away with all the dirt, danger, etc., attendant upon the use of the hot water bag and having something that is always ready for instant use by merely screwing the attachment plug into the lamp socket.

Size 12x13 Inches.

Code Word.	List No.	Mfr. No.	Heats.	Watts.	List Price, Each.
Zadavid	**5465**	1810	1	60	**$9.00**
Zadavif	**5466**	1815	3	60	**11.00**
Zadavig	**5467**	Rubber cloth cover, extra.			**1.25**
Zadavih	**5468**	Extra eiderdown covers...			**1.00**
Zadavik	**5469**	Extra rubber cloth covers.			**2.25**

SWEATING BLANKETS.

6 Feet Long, 18 Inches Wide.

Zadavil	**5470**	6770	900	**75.00**

HOT WATER URNS.

For bars, hotels or restaurants, where hot water or coffee is required at all times, the electric urn is ideal. It is cleanly, there is no odor and all the annoyance attendant upon the use of the ordinary gas burners or lamps is done away with. You merely turn on the current, reduce it if you wish to keep the water any certain temperature, and turn it off when it is not in use. The temperature can be regulated perfectly.

ARRANGED FOR THREE HEATS.

			Capacity.	Max Watts.	
Zadavim	**5471**	4320	2 gallons	800	**37.00**
Zadavin	**5472**	4325	3 gallons	1500	**54.00**
Zadavip	**5473**	4330	5 gallons	2500	**68.00**

EXTRA IMMERSION HEATERS.

Zadavir	**5474**	For No. 5471.....	**21.00**
Zadavis	**5475**	For No. 5472.....	**24.00**
Zadavit	**5476**	For No. 5473.....	**34.00**

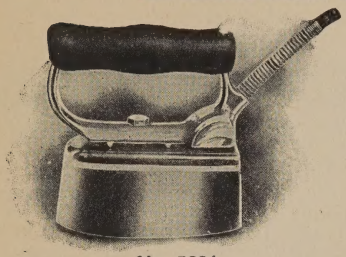
ELECTRIC BROILERS.

We make two sizes, one for ordinary domestic use and the other for hotels and restaurants. The latter is ample in size and will take the largest steaks.

In case repairs or replacements are needed, it is unnecessary to return the broiler to the factory, as the grids on which the heating elements are mounted can be removed with the aid of a screwdriver in less than two minutes time. It is but necessary to purchase new grids with elements, or coils or elements only, or to return the grids to the factory to be fitted with new coils.

Zadaviv	**5477**	5608	Broiling surface, 8x10 in.; width, 7½ in.; height, 13 in.....	**24.00**
Zadaviw	**5478**	5626	Broiling surface, 12 x 13½ in.; width, 10½ in.; height, 22 in....	**60.00**
Zadavix	**5479**	Extra grids for No. 5608.		**10.00**
Zadaviy	**5480**	Extra coils for No. 5608..		**4.00**
Zadaviz	**5481**	Extra grids for No. 5626.		**28.00**
Zadavo	**5482**	Extra coils for No. 5626..		**12.00**

AMERICAN HEATING APPARATUS.



No. 5221.

ORDINARY TYPE IRONS.

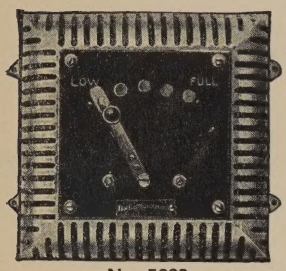
This is our regular polishing iron which is used in laundries for certain finishing work. It has a convex morocco bottom and has a round nose.

"Round nose" shape, convex morocco bottom.

Size—Length, 4¾ inches; width, 2½ inches; watts, 300.

Weight, 4 Pounds.

Code Word.	List No.	Mfr. No.	Voltages.	Elements.	List Price, Each.
Zadavob	5221	80	0-125	$4.50	$10.50
Zadavoc	5222	80	125-250	5.00	11.00



No. 5223.

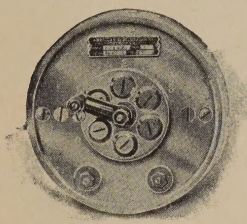
RHEOSTATS.

TEMPERATURE REGULATORS.

Size 10½x10 Inches.

			Maximum Watts.	
Zadavod	5223	400	400	9.00
Zadavof	5224	401	600	9.50
Zadavog	5225	402	800	10.00
Zadavoh	5226	403	1000	10.50

In ordering, specify the voltage and amperage of the device to be regulated, or which is to be connected in circuit with rheostat.



No. 5227.

TYPE "R" RHEOSTATS.

TEMPERATURE REGULATORS.

For regulating devices consuming not over 250 watts. Furnished in nickel, ready to attach to circuit. Made in various intermediate voltages, 0-250.

5½ in. Diameter. Height Over All, 3 in.

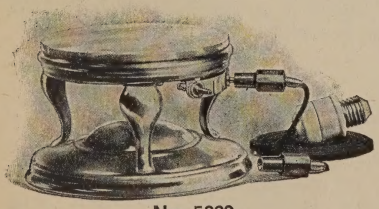
Zadavok	5227	472R	8.50

In ordering, specify the voltage and amperage of the device which is to be connected in circuit with rheostat.

DISC STOVES.

DOMESTIC SIZE.

			Diam.	Max. Watts.	Heat.	
Zadavol	5228	3220	5 in.	300	1	8.50
Zadavom	5229	3230	6 in.	400	1	10.00
Zadavon	5230	3235	6 in.	400	3	12.50



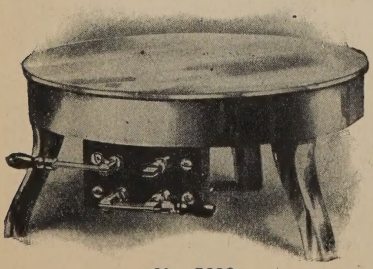
No. 5229.

EXTRA TOP PLATES.

Zadavop	5231	For No. 5228.....	3.50
Zadavor	5232	For No. 5229.....	4.00
Zadavos	5233	For No. 5230.....	5.00

INDUSTRIAL SIZE.

Zadavot	5231	3250	6 in.	600	1	11.00
Zadavov	5232	3255	6 in.	600	3	14.00
Zadavow	5233	3260	8 in.	800	1	13.00
Zadavox	5234	3265	8 in.	800	3	17.00
Zadavoy	5235	3270	10 in.	1100	1	16.00
Zadavoz	5236	3275	10 in.	1100	3	20.00
Zadavu	5237	3280	12 in.	1500	1	20.00
Zadavub	5238	3285	12 in.	1500	3	24.00

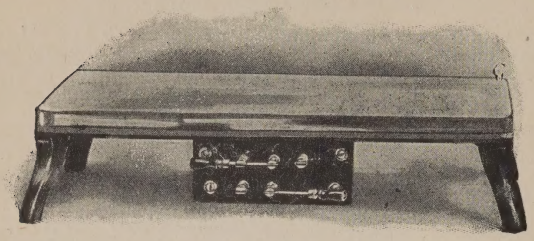


No. 5232.

EXTRA TOP PLATES.

Zadavuc	5239	For No. 5231.....	6.00
Zadavud	5240	For No. 5232.....	8.00
Zadavuf	5241	For No. 5233.....	7.00
Zadavug	5242	For No. 5234.....	10.00
Zadavuh	5243	For No. 5235.....	10.00
Zadavuk	5244	For No. 5236.....	13.00
Zadavul	5245	For No. 5237.....	14.00
Zadavum	5246	For No. 5238.....	16.00

AMERICAN HEATING APPARATUS.

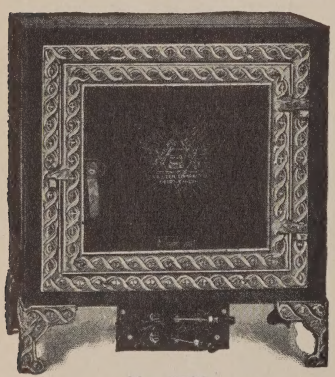


No. 7773.

ELECTRIC GRIDS.

These hot plates are especially designed for griddle cake cooking. They are also adapted for a large variety of uses, such as other cooking operations that may be performed on a hot flat surface, or as stoves for heating water and other liquids in flat bottom utensils, although immersion coils are best adapted for this purpose.

Code Word.	List No.	Mfr. No.	Width.	Length.	Heat Reg.	Watts.	List Price, Each.
Zadavun	7773	2820	7 in.	11 in.	1	800	$18.50
Zadavup	7774	2825	7 in.	11 in.	3	800	21.50
Zadavur	7775	2830	9 in.	18 in.	3	1200	29.00
Zadavus	7776	2840	12 in.	18 in.	3	1500	32.00
Zadavut	7777	2850	12 in.	24 in.	3	1700	44.00
Zadavuv	7778	2870	18 in.	24 in.	3	2600	75.00
Zadavuw	7779	2880	15 in.	30 in.	3	3000	83.00



No. 7780.

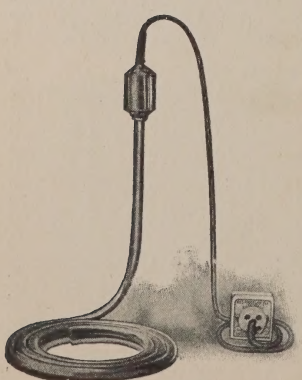
ELECTRIC OVENS.

The ovens are very durable, there being practically no danger of burnout, and if they are used properly, will last as long as any ordinary oven or stove.

The walls are constructed of polished blue steel, the door frame and legs are cast, and are finished in polished nickel

The shelves are removable.

			Width.	Depth.	Height.	
Zadavux	7780	1012	12 in.	12 in.	12 in.	35.00
1200 Watts. For Two, Three or Four Persons.						
Zadavuy	7781	1014	14 in.	14 in.	12 in.	46.00
1300 Watts. For Three, Four or Five Persons.						
Zadavuz	7782	1016	16 in.	16 in.	12 in.	51.00
1400 Watts. For Four to Eight Persons.						
Zadawa	7783	1018	18 in.	18 in.	12 in.	54.00
1500 Watts. For Six to Ten Persons.						



No. 7784.

IMMERSION HEATERS.

FLAT SPIRAL TYPE.

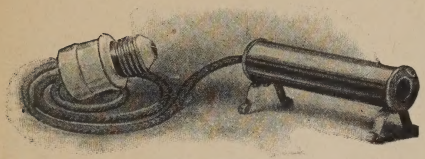
			Capacity to Boil Water.		Watts.	
Zadawab	7784	5704	1 pint	7 min.	500	14.50
Zadawac	7785	5706	1 quart	8 min.	750	18.00
Zadawad	7786	5709	2 quarts	13 min.	1000	21.50
Zadawaf	7787	5714	2 quarts	9 min.	1500	24.00
Zadawag	7788	5719	1 gallon	13 min.	2000	30.00
Zadawah	7789	5724	2 gallons	20 min.	2500	34.00

CYLINDRICAL SPIRAL SHAPE.

Zadawak	7790	5705	1 pint	7 min.	500	14 50
Zadawal	7791	5707	1 quart	8 min.	750	18.00
Zadawam	7792	5710	2 quarts	13 min.	1000	21.50
Zadawan	7793	5715	2 quarts	9 min.	1500	24.00
Zadawap	7794	5720	1 gallon	13 min.	2000	30.00
Zadawar	7795	5725	2 gallons	20 min.	2500	34.00

Are furnished complete, finished in nickel, with four feet of heavy flexible conductor and porcelain three-heat plug switch.

AMERICAN HEATING APPARATUS.

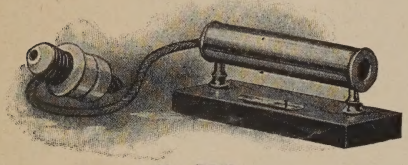


No. 7701.

CURLING IRON HEATERS.

Code Word.	List No.	Mfr. No.	Watts.	List Price, Each.
Zadawas	7701	117	60	$5.25

Diameter of opening, 9-16 in.



No. 7702.

Zadawat	7702	111	60	5.50

Diameter of opening, 9-16 in.

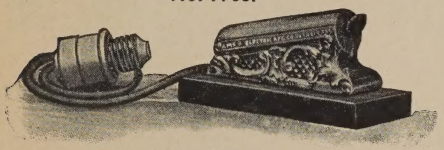
This heater is also furnished with the diameter of opening ¾ in.....7.00

No. 7703.

Zadawav	7703	115	60	5.75

Diameter of opening, 9-16 in.

With cosmetic plate.



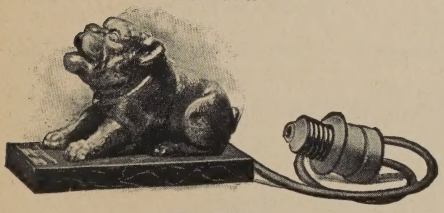
No. 7704.

Zadawaw	7704	150	60	5.75

Diameter of opening, 9-16 in.

Automatic.

When tongs are withdrawn current turned off.



No. 7705.

Zadawax	7705	112	60	7.00

Diameter of opening, 9-16 in.

All of the above listed heaters are finished in nickel, furnished complete with 6 feet of silk cord, and lamp socket attachment plug; packed in a cardboard box.

No. 7706.

AUTOMATIC WALL TYPE HEATER.

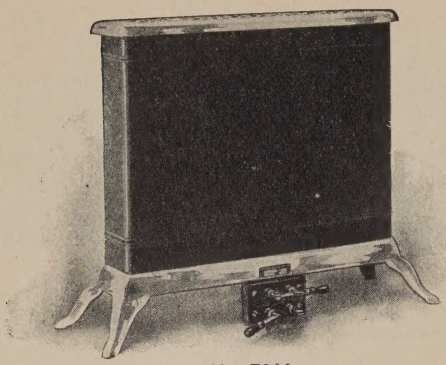
This heater is our automatic wall type. By inserting the curling tongs and depressing the same, the current is turned on and is automatically turned off when they are withdrawn. This heater is usually installed as a permanent fixture in hotels, theatres, state rooms, sleeping cars and other places where the heater is attached to the wall and is a permanent fixture.

It is finished in nickel, and is furnished ready for attachment to circuit. No cord is supplied as this heater is usually attached directly to the line wires; packed in a cardboard box.

Zadaway	7706	116	60	9.00

Diameter of opening, 9-16 in.

AMERICAN HEATING APPARATUS.



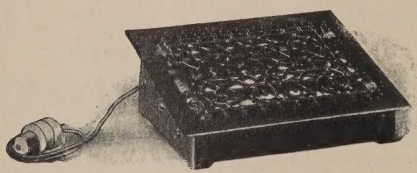
No. 7644.

AIR HEATERS.

PORTABLE TYPE.

Code Word.	List No.	Mfr. No.	Max. Watts.	Heat.	List Price, Each.
Zadawaz	7644	4210	750	1	$15.50
Zadawe	7645	4212	1000	1	17.00
Zadaweb	7646	4220	1500	1	20.00
Zadawec	7647	4225	1500	3	24.50
Zadawed	7648	4230	2000	1	26.00
Zadawef	7649	4235	2000	3	29.00
Zadaweg	7650	4240	2500	1	29.00
Zadaweh	7651	4245	2500	3	32.00
Zadawek	7652	4250	3000	1	30.50
Zadawel	7653	4255	3000	3	34.00
Zadawem	7654	4257	4000	1	32.00
Zadawen	7655	4260	4000	3	37.00
Zadawep	7656	4267	5000	1	40.00
Zadawer	7657	4270	5000	3	43.00
Zadawes	7658	4277	6000	1	46.00
Zadawet	7659	4280	6000	3	52.00

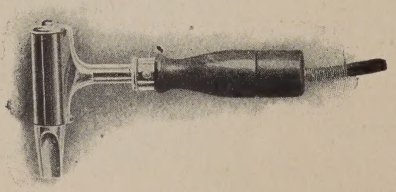
Prices on wall type quoted on application.



No. 7660.

FOOT WARMERS.

				Size.	
Zadawev	7660	780	200	10x12 in.	9.50
Zadawew	7661	781	400	10x12 in.	10.00



No. 7662.

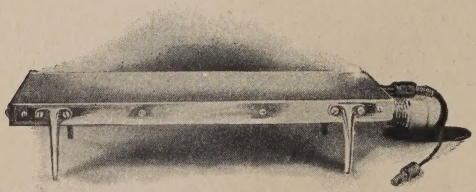
SEALING WAX HEATERS.

PORTABLE STYLE.

				Length.	
Zadawex	7662	5510	75	7 in.	8.00

STATIONARY STYLE.

Zadawey	7663	5550	25	5½ in.	8.00

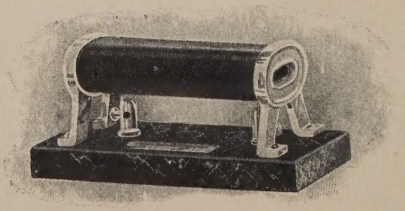


No. 7664.

SERVING TRAY HEATER.

16 in. long, 12 in. wide, 3 in. high.

Zadawez	7664	6715	500	24.00



No. 7665.

ANNEALERS

OR

SPECIAL TOOL HEATERS.

This device is intended for heating flat tools ordinarily used in melting wax or shellac, for filling in holes in furniture, and for similar purposes of this kind.

It is also designed for use as an annealing oven for annealing or drawing the temper of needles and small articles of this kind.

Size of opening, ⅞x¼ in.

Zadawi	7665	5110	200	9.00

FLASH LIGHTS.

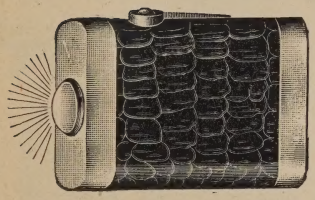
No. 9345.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zadiba	9345	2503	1½x 8½, cloth cov..	$1.50
Zadibab	9346	2505	1½x11 , cloth cov..	2.00
Zadibac	9347	2507	1½x13 , cloth cov..	2.50
Zadibad	9348	2510	1½x 8½, fibre case..	2.00
Zadibaf	9349	2512	1½x11 , fibre case..	2.50
Zadibag	9350	2514	1½x13 , fibre case..	3.00
		Extra Batteries.		
Zadibah	9351	505	Fits No. 1 and 4 lights.	.30
Zadibak	9353	511	Fits No. 2 and 5 lights.	.30
Zadibal	9354	515	Fits No. 3 and 6 lights.	.30

No. 9355.

FLASH LIGHTS WITH LARGE LENS.

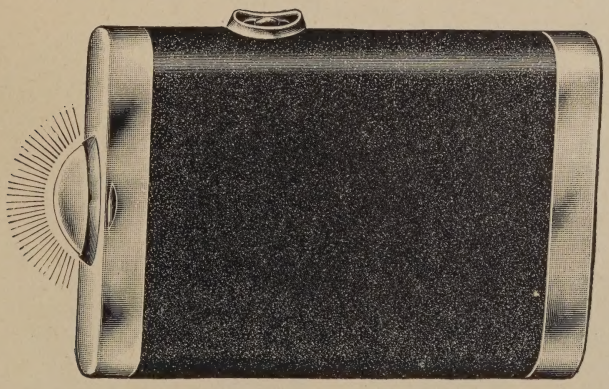
Zadibam	9355	2518	1½x 8½, fibre case..	2.75
Zadiban	9356	2520	1½x11 , fibre case..	3.25
Zadibap	9358	2522	1½x13 , fibre case..	3.75
		Extra Batteries.		
Zadibar	9362	505	Fits No. 14 light.....	.30
Zadibas	9363	511	Fits No. 15 light.....	.30
Zadibat	9364	515	Fits No. 16 light.....	.50



No. 9365.
Size, 1x2¾x3½ Inches.

VEST POCKET LIGHTS.

Zadibav	9365	6509	Fibre case.....	1.25
Zadibaw	9367	6501	Metal case, alligator covered	1.10
Zadibax	9368	6502	Metal case, cloth covered	.90
Zadibay	9369	6504	Metal case, black enameled	.85
Zadibaz	9371	6503	Metal case, marbleized	.75
		Extra Batteries.		
Zadibe	9372	502	Fits all lights.....	.30

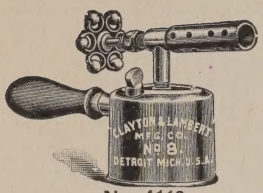


No. 9373.
Size, 1⅛x3⅜x5 Inches.

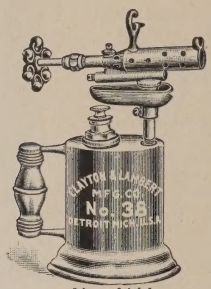
COAT POCKET LIGHTS.

Zadibeb	9373	1902	Metal case, black enameled.....	1.10
Zadibec	9374	1901	Metal case, cloth covered.....	1.25
		Extra Batteries.		
Zadibed	9375	504	Fits both lights.....	.35

SOLDERING TORCHES.



No. 4113.



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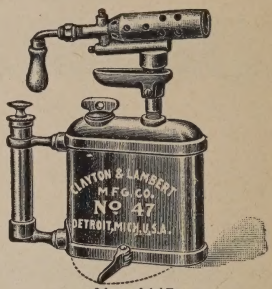
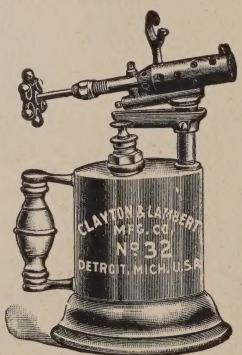


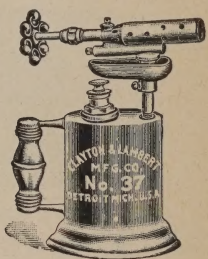
No. 4115.

Code Word.	List No.	Mfr. No.		List Price. Each.
Zadidiw	4113	8	Pint size, self-blowing	$6.00
Zadidix	4114	38	Pint size, with soldering iron attachment	7.00
Zadidiy	4115	47	Pint size	7.50

No. 4116.

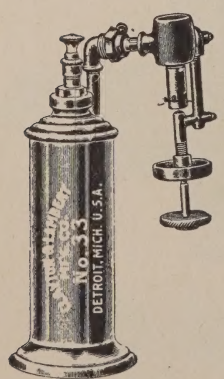


No. 4117.



No. 4118.

Zadidiz	4116	31	Quart size	7.50
Zadido	4117	32	Quart size, with soldering iron attachment	8.00
Zadidob	4118	37	Pint size	6.50

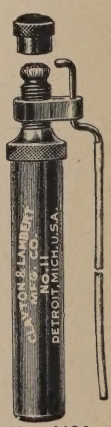


No. 4119.

No. 4120.

No. 4122.

No. 4123.

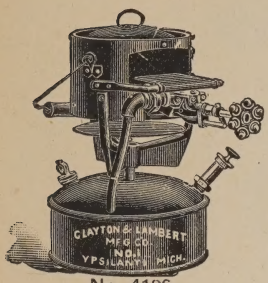


No. 4124.

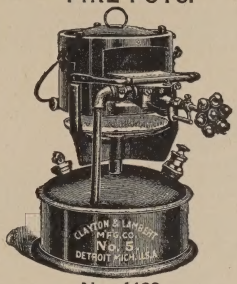
Zadidoc	4119	33	Swivel Burner	5.50
Zadidod	4120	14	Brass, 1¾x6½ inches	3.50
Zadidof	4121	14	Nickel, 1¾x6½ inches	3.80
Zadidog	4122	10	1¾x6 inches	3.00
Zadidoh	4123	21	¾x5 inches	1.00
Zadidok	4124	11	⅞x6 inches	2.50

SOLDERING APPARATUS.

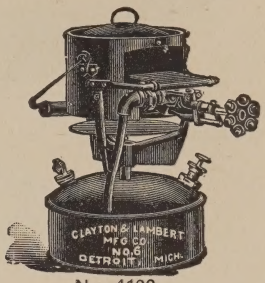
FIRE POTS.



No. 4126.

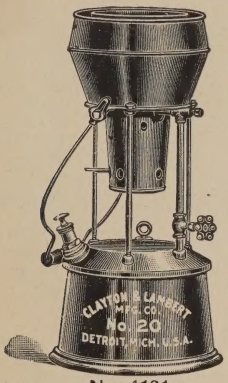


No. 4128.

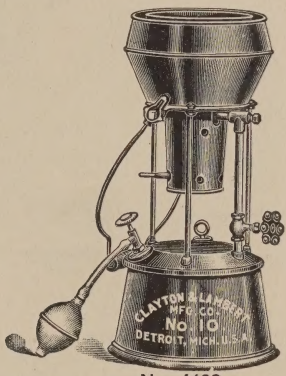


No. 4130.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zadidol	4126	1	Large	$12.00
Zadidom	4128	5	Medium	9.00
Zadidon	4130	6	Small	8.00

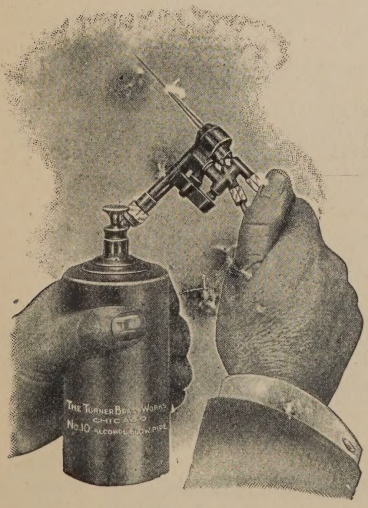


No. 4131.

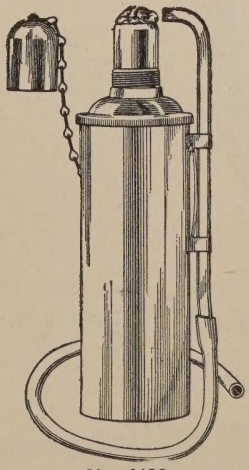


No. 4132.

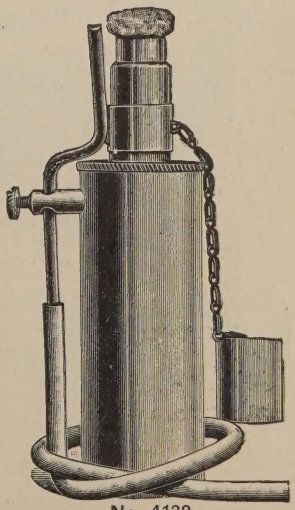
TORCHES.



No. 4134.



No. 4136.



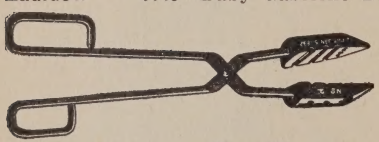
No. 4138.

Zadidop	4131	20		8.00
Zadidor	4132	10		7.50
Zadidos	4134	10	Double Jet Alcohol Blow Torch	9.00
Zadidot	4136		Roberts Alcohol Blow Torch	2.50
Zadidov	4138		Victor Alcohol Blow Torch	2.50

SOLDERING APPARATUS.

No. 4140.

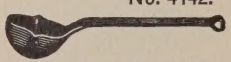
Code Word.	List No.		List Price, Each.
Zadidow	4140	Baby Gasolene Torch, self blower	$2.50



No. 4142.

EXCELSIOR SOLDERING COPPER.

Zadidox	4142	For 12, 14 and 16 wire...	3.00
Zadidoy	4144	For 9, 12 and 14 wire...	3.50
Zadidoz	4145	For 4, 6 and 8 wire...	4.50



No. 4146.

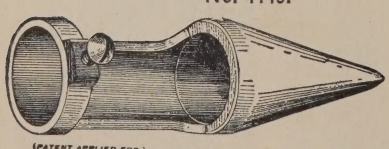
SOLDER LADLES.

Zadido	4146	2½ pound ladle	.30
Zadidub	4147	3 pound ladle	.30
Zadiduc	4148	4 pound ladle	.40

No. 4149.

SOLDER POTS.

Zadidud	4149	3½ pound pot	.50
Zadiduf	4150	5 pound pot	.50
Zadidug	4151	6 pound pot	.70



No. 4152.

RITTER SOLDERING COPPER.

Zadiduh	4152		1.60

No. 4153.

SOLDERING COPPERS.

Zadiduk	4153	Per pound	1.00

Orders should always specify weight.

SOLDERING SUPPLIES.

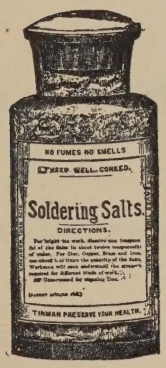
SOLDER.

No. 4154.

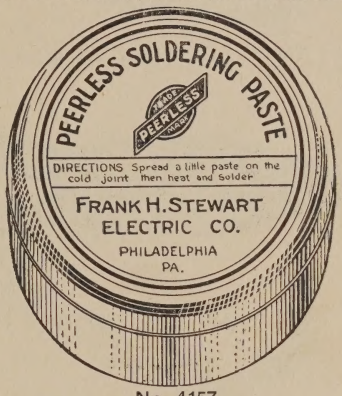
Code Word.	List No.		List Price, Each.
Zadidul	4154	Bar Solder	Prices on application

No. 4155.

Zadidum	4155	Wire Solder	Prices on application



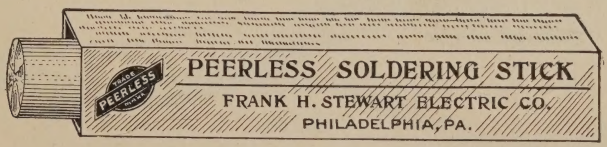
No. 4156.


PEERLESS SOLDERING PASTE
PEERLESS
DIRECTIONS Spread a little paste on the cold joint then heat and Solder
FRANK H. STEWART ELECTRIC CO.
PHILADELPHIA PA.

No. 4157.

Zadidun	4156	Soldering Salts, per ½ pound bottle	$0.50
Zadidup	4157	Peerless Soldering Paste, 2 ounce cans	.30
Zadidur	4158	Peerless Soldering Paste, 1 pound cans	1.60
Zadidus	4159	Highland Soldering Paste, 2 ounce cans	.50
Zadidut	4160	Highland Soldering Paste, 1 pound cans	2.00
Zadiduv	4162	Highland Soldering Paste, 5 pound cans	1.50

SOLDERING STICKS.



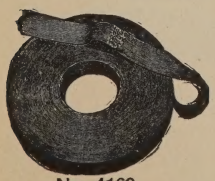
No. 4163.

Zadiduw	4163	Peerless Soldering Stick	.24
Zadidux	4165	Allen Soldering Stick	.24
Zadiduy	4166	Highland Soldering Stick	.30

No. 4168.

CHATTERTON COMPOUND.

Zadiduz	4168	Per pound	1.20

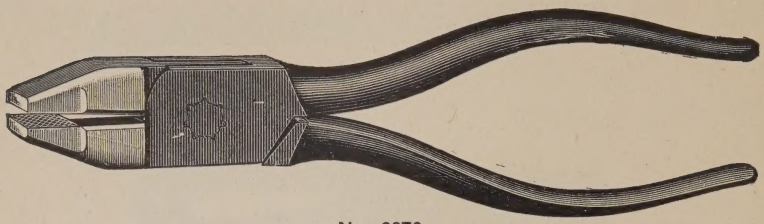


No. 4169.

TAPE.

			Per lb.
Zadifa	4169	Peerless, Standard	.70
Zadifab	4170	Manson	1.10
Zadifac	4171	Okonite	1.70
Zadifad	4172	Grimshaw, black	1.40
Zadifaf	4174	Grimshaw, white	1.30
Zadifag	4175	Weatherproof	1.00
Zadifah	4177	Armature, adhesive	1.50
			Gross Yds.
Zadifak	4178	Plain linen, ¾ in.	1.44

PLIERS.

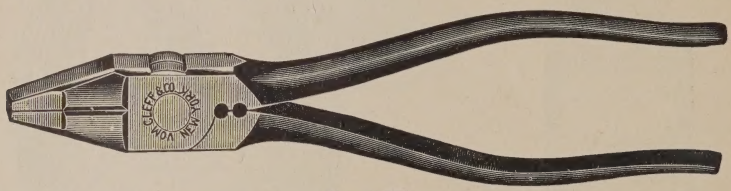


No. 9376.

STANDARD STUB PATTERN PLIERS, NO. 70.

Code Word.	List No.		5 in.	6 in.	7 in.	8 in.
Zadibew	9376	Plain	$1.40	$1.60	$1.80	$2.20
Zadibex	9377	Nickeled	1.92	2.10	2.40	3.00

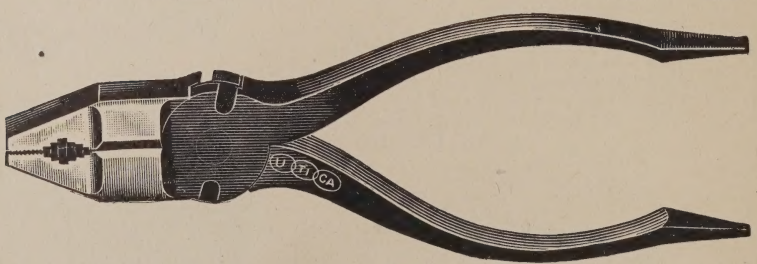
Forged from solid steel, with box joint and star rivet. Guaranteed equal to any pliers made.



No. 9378.

SIDE CUTTING AND SPLICING PLIERS, NO. 350.

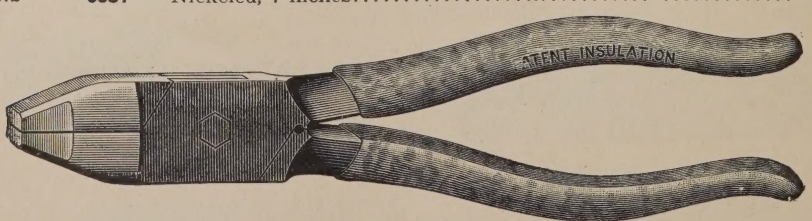
			6 in.	7 in.	8 in.
Zadibey	9378	Plain	1.50	1.90	2.10
Zadibez	9379	Nickeled	1.90	2.25	2.50



No. 9380.

COMBINATION GAS AND SIDE CUTTING PLIERS, No. 700.

Zadibi	9380	Plain, 7 inches	1.80
Zadibib	9381	Nickeled, 7 inches	2.70

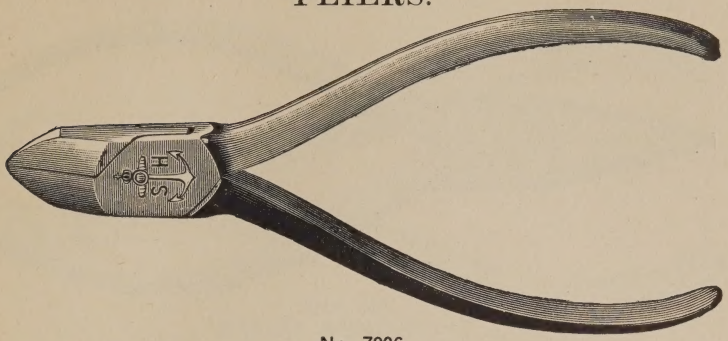


No. 9382.

MICA INSULATED PLIERS, No. 300.

Zadibic	9382	6 inches	3.25
Zadibid	9383	7 inches	4.00
Zadibif	9384	8 inches	4.75

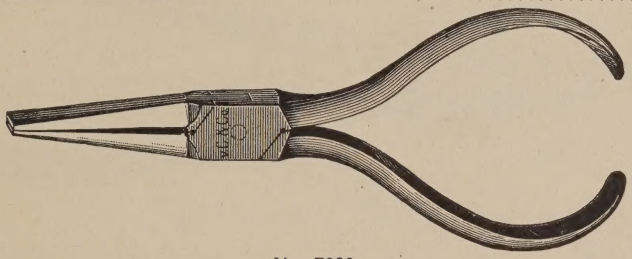
PLIERS.



No. 7906.

DIAGONAL PLIERS, NO. 342.

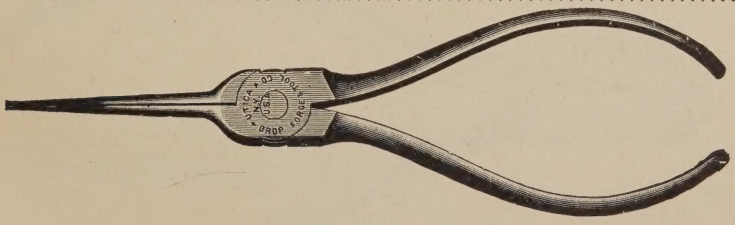
Code Word.	List No.			List Price, Each.
Zadibig	7906	4½	inches	$1.65
Zadibih	7907	5	inches	1.80
Zadibik	7908	6	inches	2.00



No. 7909.

FLAT NOSE PLIERS, NO. 20, PLAIN.

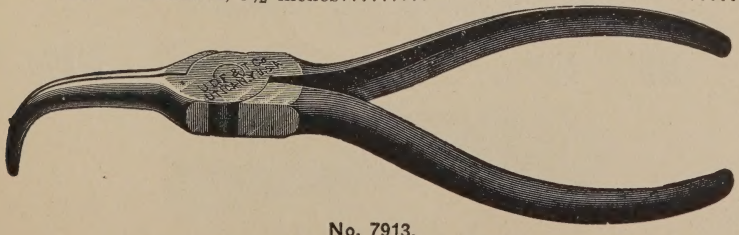
Zadibil	7909	5	inches	.60
Zadibim	7910	6	inches	.80



No. 7911.

NEEDLE NOSE PLIERS, NO. 777.

Zadibin	7911	Plain, 5½ inches	1.25
Zadibip	7912	Nickeled, 5½ inches	1.75

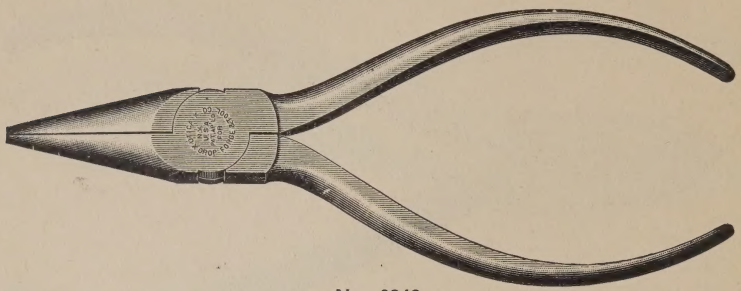


No. 7913.

CURVED NEEDLE NOSE PLIERS, NO. 888.

Zadibir	7913	Plain, 5½ inches	1.25
Zadibis	7914	Nickeled, 5½ inches	1.75

PLIERS.

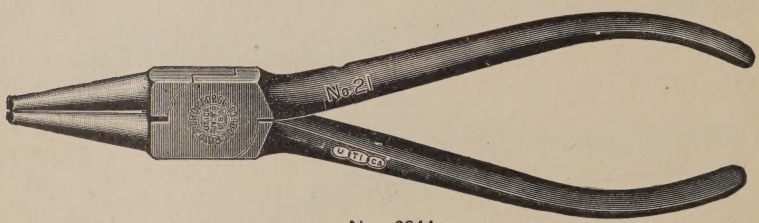


No. 9842.

CHAIN NOSE PLIERS.

No. 22.

			List Price Each. 5 in.	6 in.
Zadibit	9842	Plain	$0.80	$1.00
Zadibiv	9843	Nickeled	1.10	1.30

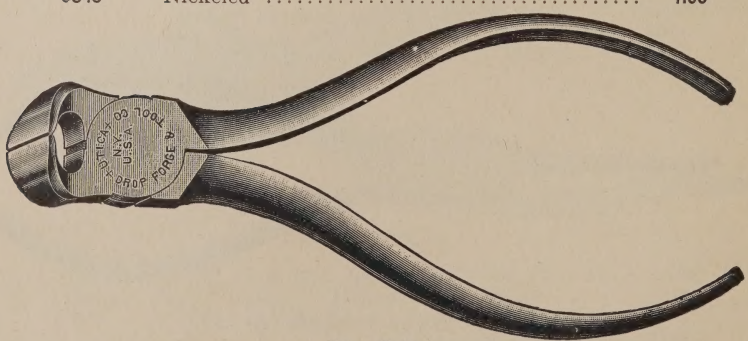


No. 9844.

ROUND NOSE PLIERS.

No. 21.

Zadibiw	9844	Plain	$0.60	$0.70
Zadibix	9845	Nickeled	1.00	1.30

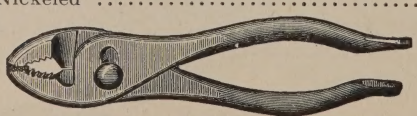


No. 9846.

JEWELERS' END NIPPERS.

No. 65.

			4½ in.	5 in.
Zadibiy	9846	Plain	$1.00	$1.10
Zadibiz	9847	Nickeled	1.40	1.50



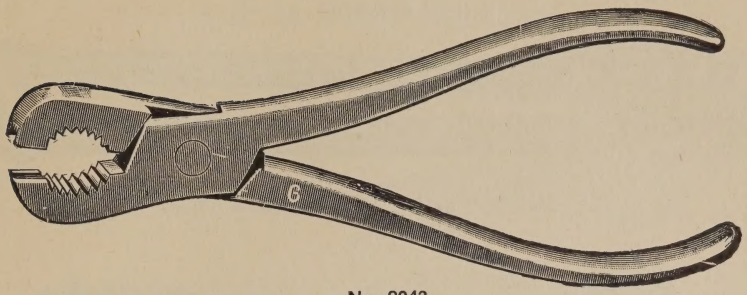
No. 9848.

B. AND S. PLIERS.

No. 95.

Zadibo	9848	Plain, 6 inches	$1.00
Zadibob	9849	Nickeled, 6 inches	1.40

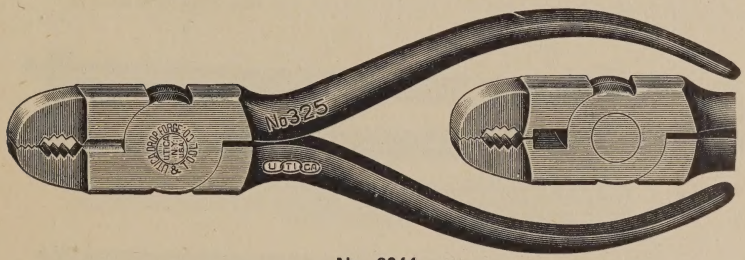
PLIERS.



No. 8043.

BURNER PLIERS, NO. 90.

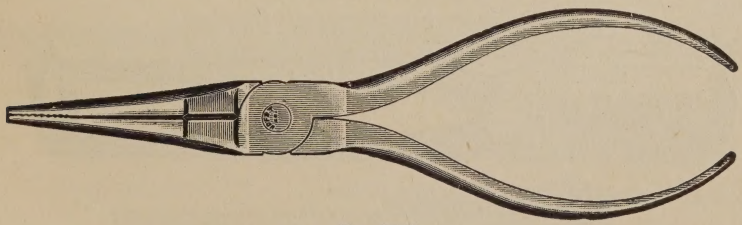
Code Word.	List No.		List Price, Each. 5 in.	6 in.
Zadibuw	8043	Plain	$0.45	$0.55



No. 8044.

FLAT NOSE GAS PIPE AND SIDE CUTTING PLIERS.

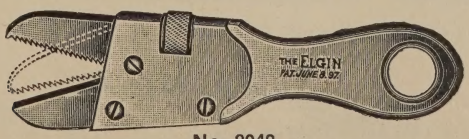
Zadibux	8044	Plain, 5½ inches	1.25
Zadibuy	8045	Nickeled	1.75



No. 8046.

LONG FLAT NOSE PLIERS, NO. 650.

Zadibuz	8046	Plain, 5½ inches	1.20
Zadica	8047	Nickeled, 5½ inches	1.70



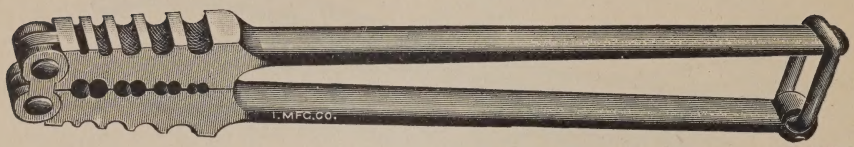
No. 8048.

ELGIN WRENCH.

Zadicab	8048		1.50

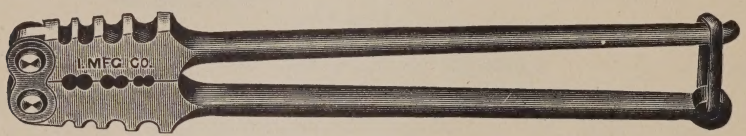
SPLICING CLAMPS.

(Full Polished.)

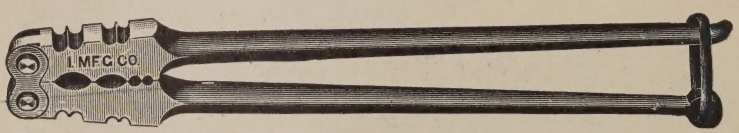


List Price. Each.

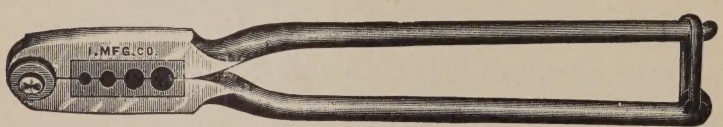
No. 19, for No. 6, 8, 10, 12 and 14 wire, 8, 10, 12 and 14 sleeves, length 10½ inches... $3.00



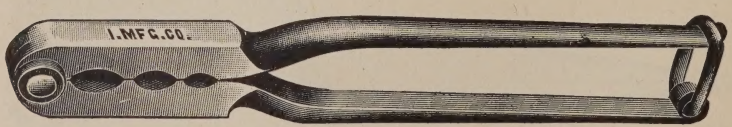
No. 19A, for Nos. 8, 10, 12 and 14 wire, 10, 12 and 14 sleeves, length 9 inches..... $3.00



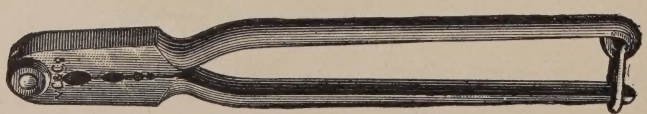
No. 11A, for Nos. 4, 6, 8 and 9 wire, 8 and 10 sleeves, length 10½ inches..... $3.00



No. 5, for No. 6 and small wires, length 10½ inches..... $4.00



No. 6, for Nos. 0, 2 and 4 wire, length 10½ inches..... $3.00

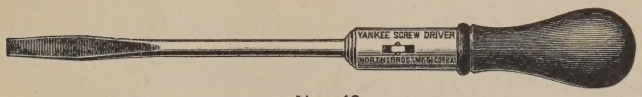


No. 1, for Nos. 4, 6, 8 and 9 wire, length 10¼ inches..... $3.00

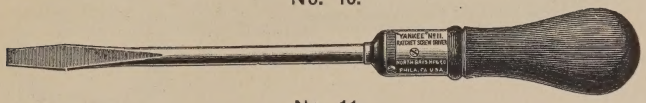
No. 18, for Nos. 10 and 12 McIntire sleeves, length 7 inches..... $2.40
No. 8, for Nos. 12, 14 and 16 wire, length 7 inches..... 2.40
No. 8A, for Nos. 12 and 14 wire, 12 and 14 sleeves, length 7 inches..... 2.50

SCREW DRIVERS.

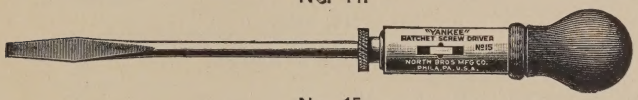
YANKEE SCREW DRIVERS.



No. 10.



No. 11.



No. 15.

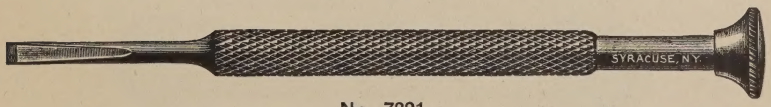
Code Word.	List No.			No. 10.	No. 11.	No. 15.
Zadiboc	7832	2	in.	$0.50	$0.50	$0.55
Zadibod	7833	3	in.	.60	.60	.65
Zadibof	7834	4	in.	.70	.70	.75
Zadibog	7835	5	in.	.80	.80	.85
Zadiboh	7836	6	in.	.90	.90	
Zadibok	7837	8	in.	1.00	1.00	
Zadibol	7838	10	in.	1.10	1.10	
Zadibom	7839	12	in.	1.20	1.20	

LOCK FERRULE SCREW DRIVER.

2 in.	3 in.	4 in.	5 in.	6 in.	8 in.	10 in.
$0.25	$0.30	$0.35	$0.42	$0.50	$0.66	$0.84

ASSEMBLER'S SCREW DRIVER.

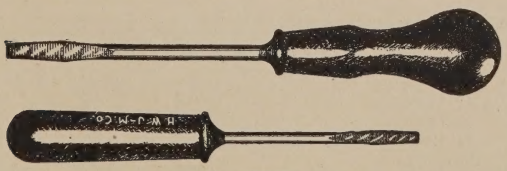
WITH SWIVEL BUTTON.



No. 7821.

Zadibon	7821		$0.80

MICA INSULATED SCREW DRIVERS.



No. 7840.

Zadibop	7840	2½	inches	$1.30
Zadibor	7841	3½	inches	1.40
Zadibos	7842	4	inches	1.50
Zadibot	7843	5	inches	2.00
Zadibov	7844	6	inches	2.25

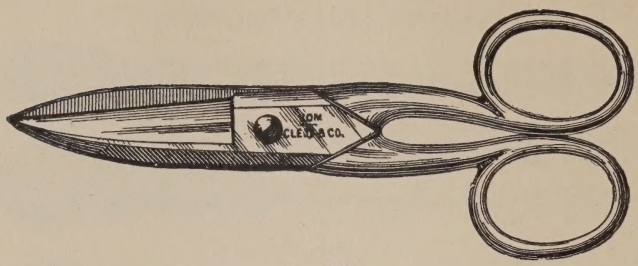
No. 7845.

POCKET SCREW DRIVER.

(SCREW DRIVER AND BRAD AWL.)

Zadibow	7845		.60

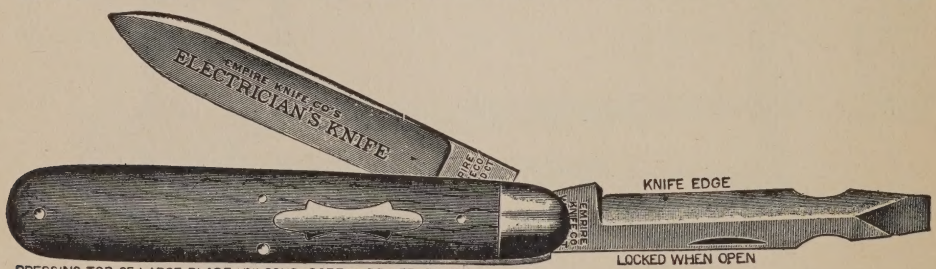
TOOLS.



No. 7854.

WIREMEN'S SNIPS.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zadibug	7854	97	5¾ inches	$1.00
Zadibuh	7855	697	5¾ inches, notched blade	1.20



No. 7856.

ELECTRICIAN'S COMBINATION KNIFE AND SCREW DRIVER.

Zadibuk	7856	Two blades	1.10
Zadibul	7857	One blade	.70

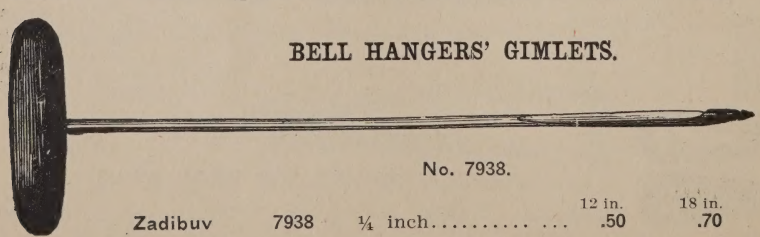
No. 7961.

DRILL HANDLES.

Zadibum	7961		.30

ELECTRICIAN'S DRILLS.

			12 in.	18 in.	24 in	30 in.	36 in.
Zadibun	7862	¼ inch	.42	.58	.75	.92	1.08
Zadibuy	7863	⅜ inch	.50	.67	.83	1.00	1.08
Zadibur	7864	½ inch	.67	.83	1.00	1.17	1.25
Zadibus	7915	⅝ inch	.83	1.00	1.17	1.25	1.33
Zadibut	7916	¾ inch	1.00	1.17	1.33	1.42	1.50



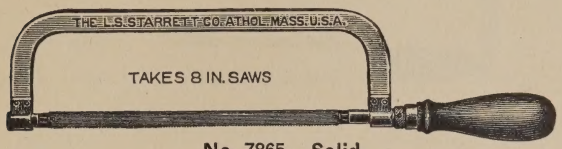
BELL HANGERS' GIMLETS.

No. 7938.

			12 in.	18 in.	24 in.	30 in.
Zadibuv	7938	¼ inch	.50	.70	.90	1.00

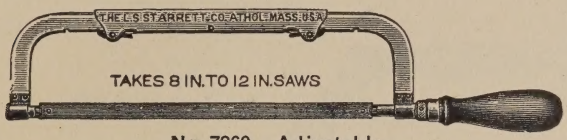
TOOLS.

HACK SAW FRAMES.



No. 7865. Solid.

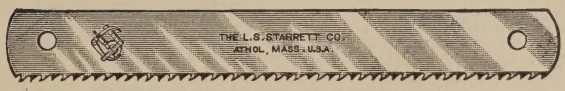
Code Word.	List No.	Mfr. No.		List Price, Each.
Zadibox	7865	141		$1.40



No. 7869. Adjustable.

Zadiboy	7869	146		2.00

HACK SAW BLADES.



No. 7870.

Zadiboz	7870	8 inches	1.30
Zadibu	7871	9 inches	1.40
Zadibub	7872	10 inches	1.70
Zadibuc	7873	12 inches	2.10

NO. 1 BIT EXTENSION.

No. 7874.

Zadibud	7874	16, 18 and 20 inches	1.70

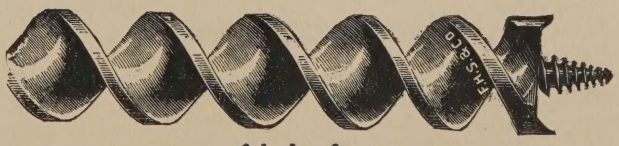
NO. 2 BIT EXTENSION.

Will follow 5/8-inch Bit.

No. 7875.

Zadibuf	7875	12, 18 and 24 inches	1.70

PUGH AUGER BITS.



9 inches long.

1/4 in.	5-16 in.	3/8 in.	7-16 in.	1/2 in.	9-16 in.	5/8 in.	11-16 in.	3/4 in.	7/8 in.
4.50	4.50	4.50	4.50	5.76	6.48	7.20	7.92	8.64	10.08

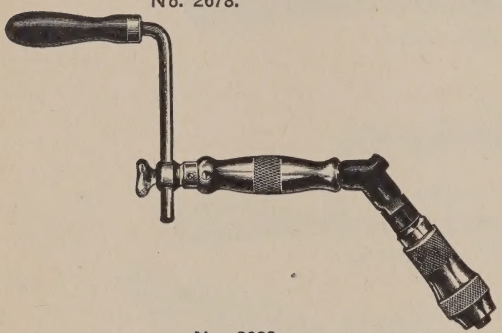
Extra for longer bits: 18 in., .36; 24 in., .48; 30 and 36 in., .56 each.

TOOLS.

No. 2678.

RATCHET BRACE.

Code Word.	List No.		List Price, Each.
Zadicez	2678	8 inch sweep.....	$3.00
Zadici	2679	10 inch sweep.....	3.50



No. 2680.

NO. 2 CORNER BRACE.

Zadicib	2680.....		4.60

No. 2681.

HOLLOW BRICK DRILLS.

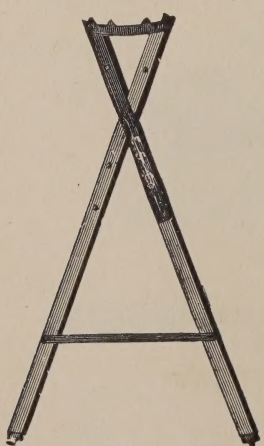
Zadicic	2681	26 in. long for ⅝ in. hole.	1.20
Zadicid	2682	26 in. long for ¾ in. hole.	1.50

No. 2683.

STAR DRILLS.

(Solid Steel.)

Zadicif	2683	26 in. long for ⅝ in. hole.	2.50
Zadicig	2684	26 in. long for ⅞ in. hole.	3.00
Zadicih	2685	26 in. long for 1 in. hole.	3.50



No. 23265.

No. 23268.

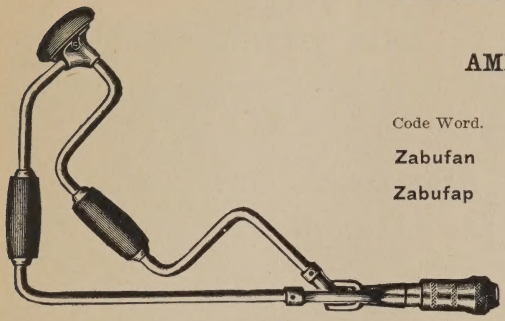
JENNEY POLE SUPPORT.

		Mfr. No.		Approximate Weight.	
Zadicik	23865	854	6 ft. high	40 lbs.....	6.25
Zadicil	23266	855	7½ ft. high	45 lbs.....	7.00
Zadicim	23267	856	4½ ft. high	16 lbs.....	4.25

MULE POLE SUPPORT.

Zadicin	23268	857	6 ft. high	20 lbs.....	5.00
Zadicip	23269	858	7½ ft. high	24 lbs.....	5.75

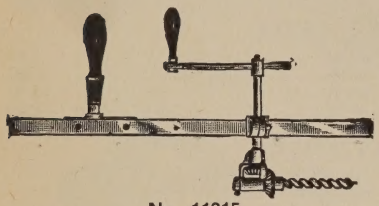
TOOLS.



No. 11813.

AMIDON CORNER BIT BRACE.

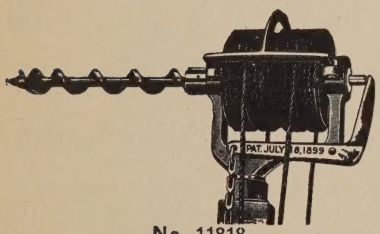
Code Word.	List No.		List Price, Each.
Zabufan	11813	8 in. Sweep	$5.00
Zabufap	11814	10 in. Sweep	5.50



No. 11815.

ANTHONY BORING TOOL.

Zabufar	11815	Anthony Boring Tool	5.00
Zabufas	11816	Anthony Extension Chuck	.50
Zabufat	11817	Balz Extension Chuck	1.50



No. 11818.

ROBERTS' BORING MACHINE.

Zabufav	11818	Complete	25.00

No. 11819.

ZEEK BORING MACHINE.

The only practical device for underneath drilling. It bores two holes at once, 3¾ in. from center to center, and 3½ in. from top of joist. All holes are on a line, giving a straight run of wire.

It is manufactured of the best material obtainable, all castings used are of steel or malleable iron, carefully made to templet, so are interchangeable, the handle and rest are of straight grained hickory, oil finish, complete with two 11-16 inch bits. Other sizes furnished if desired. Weight of machine, 20 pounds.

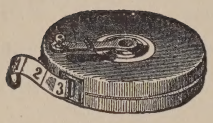
Zabufaw	11819	Complete	20.00

SMALL TOOLS.

TAPE LINES.

LINEN TAPES.

Code Word.	List No.		List Price
Zabalef	47616	25 ft., each	$1.10
Zabaleg	47617	50 ft., each	1.55
Zabaleh	47618	75 ft., each	1.95
Zabalek	47619	100 ft., each	2.45



No. 47617.

HARD LEATHER CASE.

Zabalel	47620	25 ft., per doz	21.00
Zabalem	47621	50 ft., per doz	31.80
Zabalen	47622	75 ft., per doz	39.60
Zabalep	47623	100 ft., per doz	50.40

SKIN, BRASS BOUND CASE.

Zabaler	47624	25 ft., per doz	3.75
Zabales	47625	50 ft., per doz	5.00
Zabalet	47626	75 ft., per doz	7.50
Zabalev	47627	100 ft., per doz	9.00

STEEL TAPES.

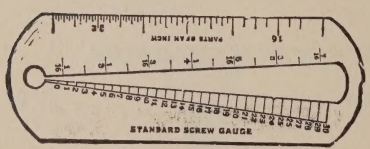
Zabalew	47628	25 ft., each	4.50
Zabalex	47629	50 ft., each	7.20
Zabalez	47630	75 ft., each	10.40
Zabali	47631	100 ft., each	12.80

No. 47632.

GAUGES.

STANDARD WIRE GAUGE.

Zabalib	47632	American, 0 to 36	2.50
Zabalid	47633	American 5 to 36	2.00
Zabalif	47634	English, 1 to 36	2.00
Zabalig	47635	English, 6 to 36	1.50



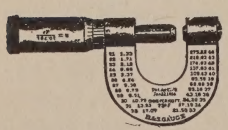
FRONT.

BACK.

POCKET SCREW AND WIRE GAUGE.

Front side gauged to measure screws to 32d of an inch. Back side measures wire by B. W. G. from 17 to 0000 on the right and from 15 to 000 by B. & S. on left of slot.

Zabalih	47636		2.50
Zabalik	47637	Larger size	3.50
Zabalil	47638	Extra thick	4.50



No. 47639.

MICROMETER CALIPER.

Measures from .001 to 1 inch.

Zabalim	47639	Micrometer cal., only	5.50
Zabalin	47640	Morocco case	.50
Zabalip	47641	With ratchet stop	6.00

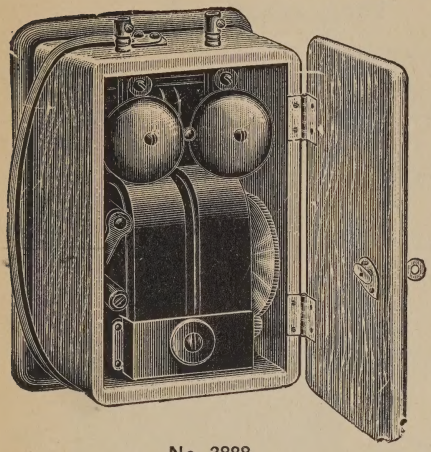
No. 47642.

MICROMETER CALIPER.
FOR MEASURING THICKNESS OF TUBING.

Measures from 5-16 inch inside diameter upward by 1-1000 of an inch.

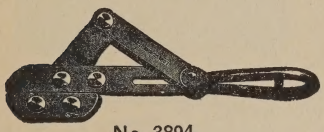
Zabalir	47642	Micrometer caliper, only	4.50
Zabalis	47643	Morocco case	.50
Zabalit	47644	With ratchet stop	5.00

TESTING MAGNETO.



No. 3888.

Code Word.	List No.		List Price, Each.
Zadidib	3888	10000 ohms.....	$9.75
Zadidic	3889	15000 ohms.....	10.15
Zadidid	3890	20000 ohms.....	10.50
Zadidif	3891	25000 ohms.....	11.25
Zadidig	3892	35000 ohms.....	12.00
Zadidih	3893	50000 ohms.....	12.75



No. 3894.

BUFFALO GRIPS.

No. 1 takes Wire up to No. 6.

		Grip Only.	Grip with Pulley.
Zadidik	3894	2.50	3.00

No. 2 takes Wire up to No. 00.

Zadidil	3895	4.00	4.50

No. 3 takes Wire up to No. 0000.

Zadidim	3896	6.00	6.50

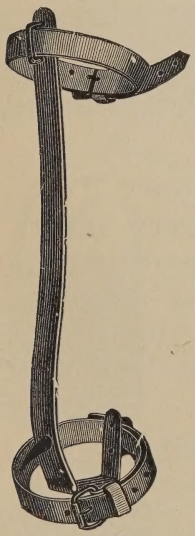
FOR INSULATED WIRE.

No. 4 for No. 6 to No. 1 inclusive.

Zadidin	3897	4.00	4.50

No. 5 for No. 4 to No. 0000 inclusive.

Zadidip	3898	5.00	5.50



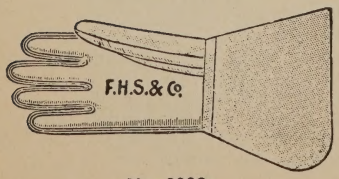
No. 3899.

CLIMBERS AND STRAPS.

(Dicke Tool Co.)

Zadidir	3899	Climbers only, per pair..	3.00
Zadidis	3900	Strands only, per set....	2.00
Zadidit	3901	Pads, only, per set.....	.50

Other makes furnished on demand.



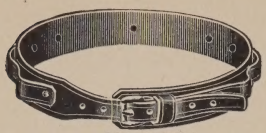
No. 3902.

RUBBER GLOVES.

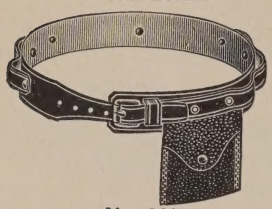
"Reversible."

Zadidiv	3902	Per pair.....	5.00

These gloves are made of pure rubber.

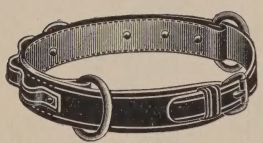


No. 24151.



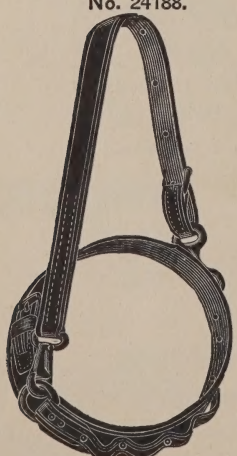
No. 24152.

No. 24153.



No. 24156.

No. 24188.



No. 24158.

KLEIN TOOLS.

TOOL BELTS.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacitov	24151	383	Plain tool belt 2¼ inch..... Weight each 16 oz.	$1.50
Zacitow	24152	383D	Plain tool belt 2¼ inch, with pouch ..... Weight each 20 oz.	2.20
Zacitox	24153	383A	2¼ inch belt with rings for attaching safety strap, each ..... Weight each 24 oz.	1.90
Zacitoy	24154	383B	Same belt as above with addition of pouch, each..... Weight each 30 oz.	2.60
Zacitoz	24155	383E	3½ inch extra wide belt, each ..... No safety strap included in price. Weight each 30 oz.	2.50
Zacitu	24156	383C	2¼ inch double belt.....	2.60

This belt is made double where it reaches around the back and through the rings. Weight each 32 oz.

When ordering belts please state if wanted for 38, 40, 42, 44 or 46 inch waist.

LEATHER POUCH.

For holding screws, staples, etc. Made with loops to slip into belt. State for what size belt pouch is wanted.

Zacitub	24188	62	.....	.70

BELT AND SAFETY STRAP.

Zacituc	24157	384	2¼ inch belt including safety strap, each..... Weight each 3½ pounds.	4.20

The safety strap is 1¾ inches wide and 6 feet long, and provided with a strong snap at each end. Strap may be shortened or lengthened by adjusting buckle, or it may be detached entirely from the belt.

SAFETY STRAPS.

Zacitud	24158	385	1¾ inch x6 feet safety strap with japanned snaps.....	2.30
Zacituf	24159	385R	1¾ inch x6½ feet safety strap with tinned roller snaps ..... Weight each 2½ pounds.	2.50
Zacitug	24160	385S	1¾ inch x6½ feet safety strap with tinned swivel roller snap..... Weight each 2½ pounds.	2.90
Zacituh	24161	386	2 inch x6 feet safety strap tinned roller snaps..... Weight each 2¾ pounds.	3.00

KLEIN TOOLS.

No. 24144.

LINEMAN'S CANVASS TOOL BAG, LEATHER BOTTOM.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacitol	24144	393	20 inch bag.....	$5.00
	Weight each 3¾ pounds.			
Zacitom	24145	393E	16 inch bag.....	4.80
	Weight each 3 pounds.			
Zaciton	24146	393A	12 inch bag.....	4.60
	Weight each 2½ pounds.			

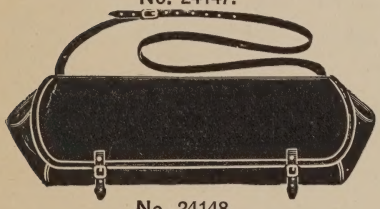
No. 24147.

INSPECTOR'S BLACK LEATHER TOOL BAG.

Bag with shoulder straps made entirely of leather, tongue and buckle fastenings, convenient for inspector, wireman or lineman.

Zacitop	24147	393B	15 inches long, 12 inches high.....	6.00

Weight each 3 pounds.



No. 24148.

INSPECTOR'S LEATHER TOOL BAG, RUSSET LEATHER.

20x8 inch bag, made entirely of leather, has tongue and buckle fastenings and shoulder strap.

Zacitor	24148	393C	.....	7.80

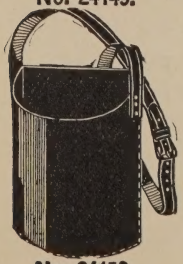
Weight each 2½ pounds.

No. 24149.

BLACK LEATHER CARBON BAG.

Zacitos	24149	393D	Riveted bag.....	3.00

Weight each 2¾ pounds.



No. 24150.

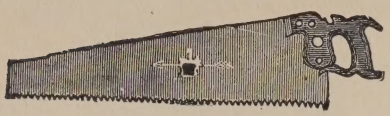
BLACK LEATHER CARBON BAG.

Zacitot	24150	393G	Sewed bag.....	3.75

Weight each 3 pounds.

TOOLS

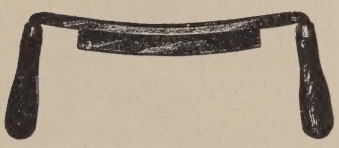
SAWS.



No. 459.

Code Word.	List No.		List Price.
Fashions	459	18-in. panel saw, per dozen....	$16.00
Compassions	14990	20-in. panel saw, per dozen....	17.50
Finiste	460	22-in. panel saw, per dozen....	19.50
Frugals	461	24-in. panel saw, per dozen....	21.00

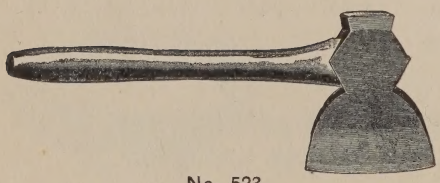
DRAW KNIVES.



No. 531.

Cultured	531	12-in. blade, per dozen	36.00
Crackless	532	14-in. blade, per dozen	38.00
Fierlut	462	16-in. blade, per dozen	40.00

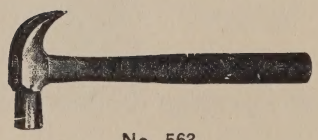
HATCHETS.



No. 523.

Compatibles	14991	Cut 3¾ in., per dozen	8.50
Compatriots	14992	Cut 4 in., per dozen	9.00
Creased	523	Cut 5 in., per dozen	17.50
Crests	524	Cut 6 in., per dozen	22.00
Crossed	525	Cut 7 in., per dozen	29.50

NAIL HAMMERS.



No. 563.

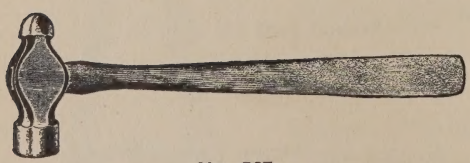
PLAIN EYE.

Compeers	14993	12-oz., each.....	.75
Compeled	14994	15-oz., each.....	.80
Compends	14995	18-oz., each.....	.85

ADZE EYE.

Compeng	14996	7-oz., each.....	.75
Compens	14997	13-oz., each.....	.80
Zameas	563	16-oz., each.....	.85
Zircons	564	20-oz., each.....	.90

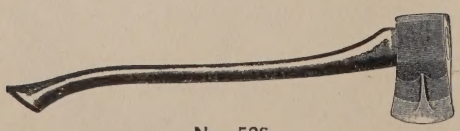
BALL PEIN HAMMER.



No. 527.

Crucialy	527	Weight, 1 lb., per dozen.....	12.50
Zebut	560	Weight, 1¼ lbs., per dozen.....	13.50
Zeniths	561	Weight, 1½ lbs., per dozen.....	14.50
Zerots	562	Weight, 2¼ lbs., per dozen.....	17.50

LINEMEN'S AXE.



No. 526.

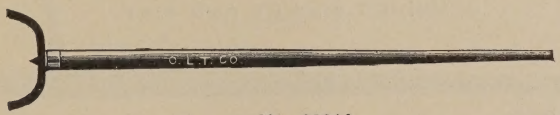
Crowds	526	4½-in. cut, with handle	17.50

PLAIN PIKE POLES.

No. 23199.

Code Word.	List No.	Mfr No.		Approx. Wgt., lbs.	List Price Per doz.
Changer	23197	814	12 ft., 2 in. handle	110	$15.00
Changerd	23198	815	14 ft., 2 in. handle	130	17.00
Channa	23199	816	16 ft., 2 in. handle	150	20.50
Channer	23200	817	18 ft., 2 in. handle	170	24.50
Channit	23201	818	20 ft., 2 in. handle	190	30.00
Channog	23202	819	10 ft., 2½ in. tapered handle	130	20.00
Channum	23203	820	12 ft., 2½ in. tapered handle	150	21.75
Chanta	23204	821	14 ft., 2½ in. tapered handle	165	25.25
Chantad	23205	822	16 ft., 2½ in. tapered handle	185	29.00
Chanteb	23206	823	18 ft., 2½ in. tapered handle	230	32.50
Chantem	23207	824	20 ft., 2½ in. tapered handle	250	36.00
Chantet	23208	825	22 ft., 2½ in. tapered handle	265	43.00
Chantil	23211	826	24 ft., 2½ in. tapered handle	310	47.00

GUARDED PIKE POLES.

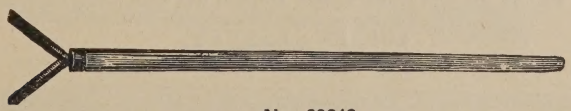


No. 23214.

Chantir	23212	827	12 ft., 2 in. handle	135	22.00
Chantit	23213	828	14 ft., 2 in. handle	155	24.25
Chanto	23214	829	16 ft., 2 in. handle	185	28.00
Chantob	23215	830	18 ft., 2 in. handle	195	31.75

CROTCH PATTERN PIKE POLES.

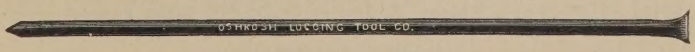
FOR RAISING IRON POLES.



No. 23218.

Chantod	23216	831	12 ft., 2 in. handle	130	22.00
Chantol	23217	832	14 ft., 2 in. handle	150	24.25
Chanton	23218	833	12 ft., 2 in. handle	180	28.00
Chantor	23219	834	18 ft., 2 in. handle	190	31.75

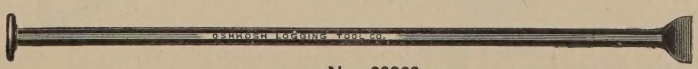
CROW AND DIGGING BAR.



No. 23221.

Chantos	23220	835	1 in. octagon steel, 7 ft. long, weight about 20 lbs.....	36.00
Chantot	23221	836	1⅛ in. octagon steel, 8 ft. long, weight about 30 lbs.....	48.00

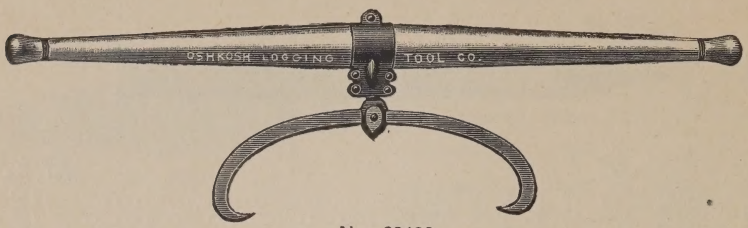
TAMPING AND DIGGING BAR.



No. 23223.

Chantov	23222	837	1 in. octagon steel, 7 ft. long, weight about 20 lbs.....	36.00
Chantow	23223	838	1⅛ in. octagon steel, 8 ft. long, weight about 30 lbs.....	48.00

LUG OR GRAPPLING HOOK.



No. 23182.

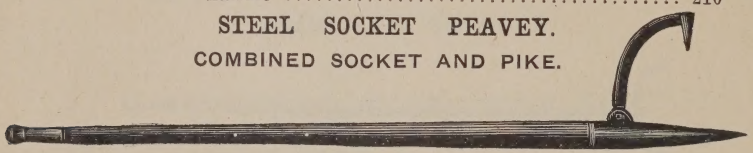
Code Word.	List No.	Mfr. No.		Approximate Weight.	List Price. Per Doz.
Ceremony	23182	801	Lug or Grappling Hook, with swivel, 4 ft. handle.	90 lbs.	$35.00

EXTRA LARGE LUG HOOKS.

Chagrine	23184	802	Lug or Grappling Hook, with steel swivel, 5 ft. handle	160 lbs.	41.50
Chairmin	23185	803	Lug or Grappling Hook, with steel swivel, 6 ft. handle	190 "	50.00
Chaldren	23186	804	Lug or Grappling Hook, with steel swivel, 7 ft. handle	210 "	58.50

STEEL SOCKET PEAVEY.

COMBINED SOCKET AND PIKE.



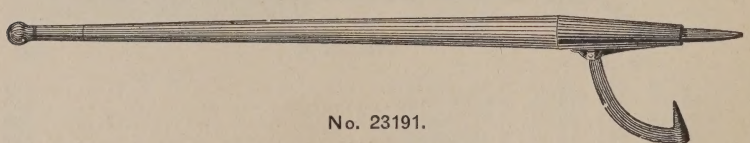
No. 23188.

This is a very strong and durable peavey. One advantage is the ease with which new handles can be fitted. The pike and socket being one piece, it is only necessary to drive the handle into the socket.

Chalacs	23187	805	2½ in. Steel Socket Peavies, Round or Duck Bill Hooks, select maple handles	110 lbs.	34.00
Challens	23188	806	2½ in. Steel Socket Peavies, Round or Duck Bill Hooks, hickory handles	115 "	36.50
Chamomils	23189	807	2½ in. Steel Socket Peavies, Round or Duck Bill Hooks, second growth rock maple handles	110 "	36.50

We claim our second growth Rock Maple Handle has twice the strength of Hickory.

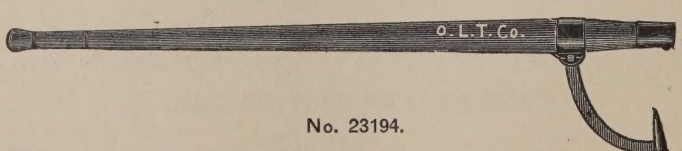
SOCKET PEAVEY.



No. 23191.

Champagns	23190	808	2½ in. Peavey, Round or Duck Bill Hook, select maple handle	110 lbs.	27.50
Champagot	23191	809	2½ in. Peavey, Round or Duck Bill Hook, hickory handle	115 "	30.00
Championg	23192	810	2½ in. Peavey, Round or Duck Bill Hook, second growth rock maple handle	110 "	32.50

CANT HOOK.



No. 23194.

Chancil	23193	811	2½ in. Cant Hooks, Round Bill Hook, select maple handle	90 lbs.	22.50
Chancolt	23194	812	2½ in. Cant Hooks, Round Bill Hook, hickory handle	95 "	25.00
Chanculb	23195	813	2½ in. Cant Hooks, Round Bill Hook, second growth rock maple handle	90 "	25.00

We claim our second growth Rock Maple Handle has twice the strength of Hickory.

ROUND DIGGING BAR.

No. 23225.

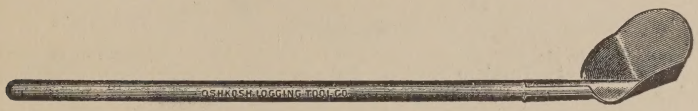
Code Word.	List No.	Mfr. No.		List Price Per Doz.
Chantu	23224	839	1 in. round steel, 7 ft. long, weight about 18 lbs.....	$30.00
Chantub	23225	840	1⅛ in. round steel, 8 ft. long, weight about 28 lbs.....	36.00

LOY OR SLICK.

No. 23226.

Chantud	23226	841	8 ft. handle, 80 lbs.....	41.25

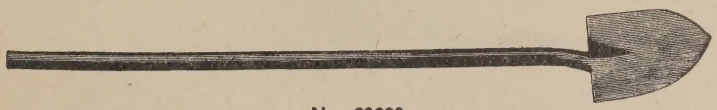
SPOONS FOR DIGGING OUT HOLES.



No. 23227.

Chantug	23227	842	8 ft. handle, 75 lbs.....	17.50

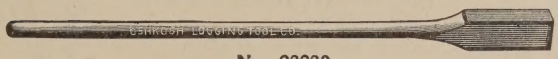
POST HOLE SHOVELS.



No. 23229.

Chantuk	23228	843	8 ft. handle, round point, short strap, 90 lbs.....	33.75
Chantum	23229	844	8 ft. handle, round point, long strap, 94 lbs.....	36.25

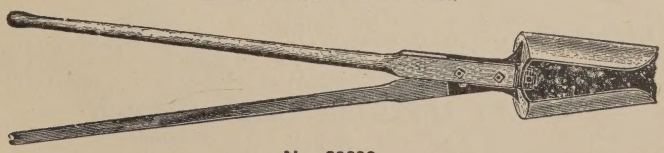
TAMPING BAR.



No. 23230.

Chantup	23230	845	8 ft. handle, iron shoe, 150 lbs.....	20.00

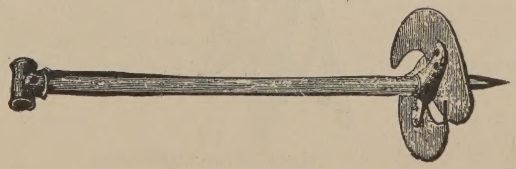
POST HOLE DIGGER.



No. 23232.

Chantur	23231	849	5 ft., 110 lbs.....	17.50
Chantut	23232	850	8 ft., 115 lbs.....	20.00

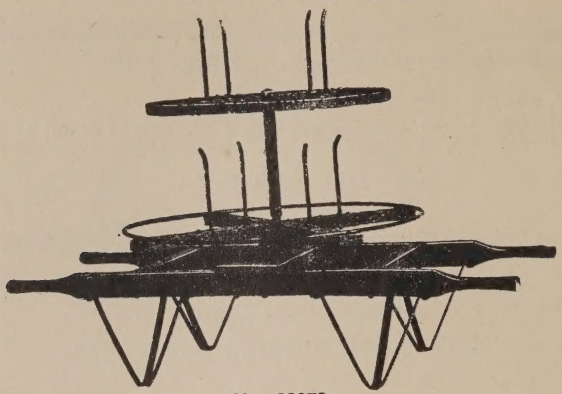
POST HOLE AUGER.



No. 23234.

				Each. List Price
Chantuw	23233	851	10 in., 11 lbs.....	6.30
Chantux	23234	852	12 in., 12 lbs.....	7.20
Chantuz	23235	853	14 in., 13 lbs.....	8.00

TANDEM REEL.

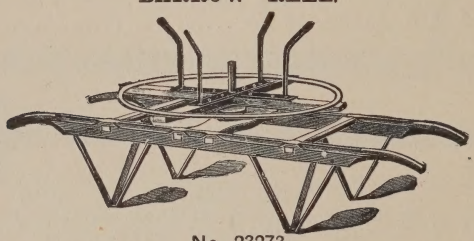


No. 23272.

Code Word.	List No.	Mfr. No.		List Price. Each.
Chapog	23272	0861	Tandem Reel on Barrow.....	$35.00

Approximate Weight, 100 Lbs.

BARROW REEL.



No. 23273.

Chapok	23273	861	.....	20.00

Approximate Weight, 75 Lbs.

PAY OUT REEL.

No. 23274.

Chapol	23274	862	.....	12.00

Approximate Weight, 40 Lbs.

Chapom	23275		Tensions for above reels.....	.60

PATENT IMPROVED TAKE UP REEL.

No. 23277.

The iron reel is easily collapsed, allowing wire coil to fall off.

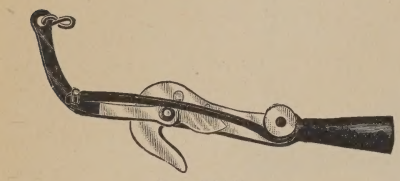
				Approximate Weight.	Per Doz.
Chapon	23276	863	To make 12 in. coil, each.....	38 lbs.	25.60
Chapor	23277	864	To make 18 in. coil, each.....	40 lbs.	26.00
Chapot	23278	865	To make 24 in. coil, each.....	42 lbs.	27.00

KLEIN TOOLS.

No. 24162.

KLEIN'S CABLE STRIPPER KNIFE.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacituk	24162	379A		$2.00



No. 24163.

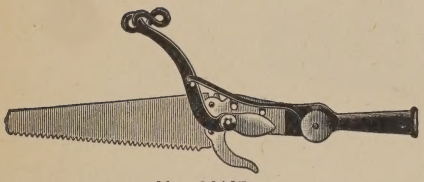
KLEIN'S TREE TRIMMERS.

Zacitul	24163	394	Favorite tree trimmer	3.60

18 inches over all. Weight 2¾ pounds.

Zacitum	24164	395	Favorite tree trimmer	4.40

21 inches over all. Weight 3¼ pounds.



No. 24165.

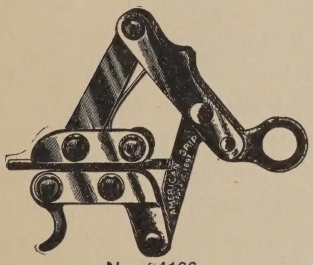
KLEIN'S FAVORITE TREE TRIMMERS.

With Detachable Saw.

Zacitun	24165	394S		4.60

The trimmer proper is same size as No. 394.

Weight 3 pounds.



No. 24166.

KLEIN'S AMERICAN GRIP.

Zacitup	24166	359	For No. 6 wire and smaller...	4.00
Zacitur	24167	359A	For No. 0 wire and smaller...	8.00

KLEIN'S HAVENS' STEEL CLAMP.

Polish Finish.

Zacitus	24168	368	For No. 8 wire and finer	3.00
Zacitut	24169	369	For No. ½ wire and finer	5.50

This is a very efficient clamp for all around work.

Weight 2½ pounds.

No. 24168.

KLEIN'S CLAMP, STYLE C.

For Bare Copper Wire.

Zacituv	24170	371	For No. 4 wire and finer	5.50

Brass polish finish. Weight 2 pounds.

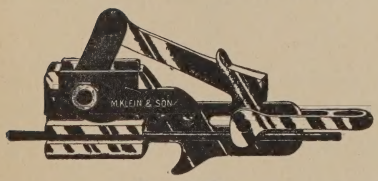
Zacituw	24171	372	For No. 4 to 0 wire	10.00

Brass polish finish. Weight 5 pounds.

Zacitux	24172	372A	For 0 to 0000 wire	12.00

Weight 5 pounds.

Clamp is provided with a swing latch which engages a steed on the lower jaw thus bringing the pressure central on the cross bolt.



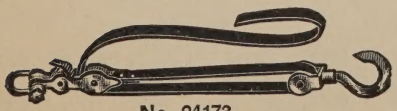
No. 24170.

KLEIN'S HOWES WIRE TOOL.

Zacituy	24173	481		6.20

Weight 2¼ pounds.

The roller frames and rollers are brass. The swivel hook is steel with an opening large enough to go over an insulator pin or other convenient object to anchor to. The forward end has a locking device to hold the load at any distance. It is arranged so it can be used with a vise or with a grip.

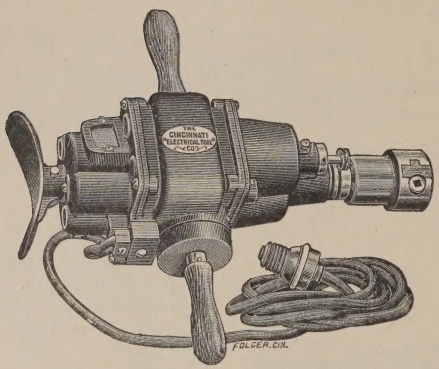


No. 24173.

TOOLS.

PORTABLE ELECTRIC DRILLS.

DIRECT CURRENT.



The progress of the times demands labor saving machinery, and the Portable Electric Drill is the acme of labor saving devices.

It is simple in form of construction and only the best materials are used. All parts are interchangeable. The Tool is manufactured in three sizes, and furnished with Chucks holding drills from 0 to ¼ inch, 0 to ⅜ inch and 0 to ½ inch, the latter size being made in two speeds. The Drill is centrally located, and the Tool is evenly balanced in all its parts; the switch controlling the motor is located in one of the handles; the light weight, great power and efficiency of the Tool make it invaluable for machine shops, wood-working establishments or in any manufactory where the ordinary Breast Drill can be used.

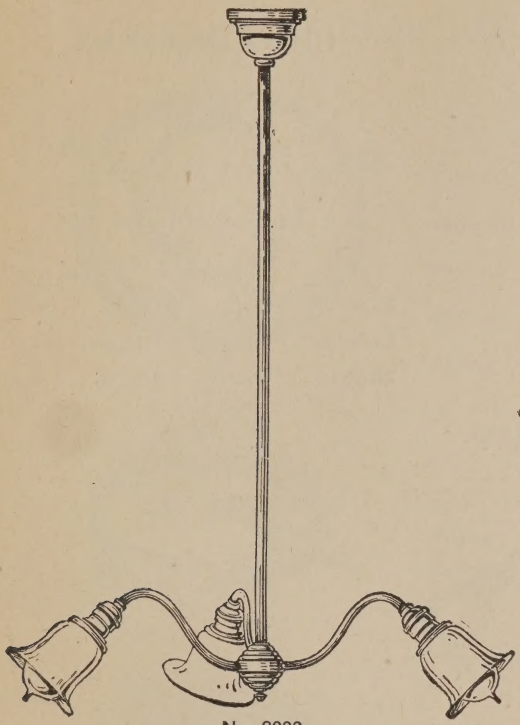
The Motor is shunt wound and the Armature consists of a number of soft laminated steel punchings. The Fields are made of soft Norway iron forgings, and by a special system of winding will take care of heavy or sudden loads. Under all ordinary conditions the machine will not run hot.

The Commutator is made of the highest grade tempered copper, insulated with India mica, so as to wear evenly with the surface of the copper.

The Shaft is made of tool steel, hardened on the bearings end and ground to a perfect fit.

Code Word.	List No.	Size.	Type.	Volts.	Capacity of Chuck.	List Price, Each.
Zabovu	11073	¼ inch	A	110	0 to ¼ inch	$55.00
Zabovub	11074	¼ inch	B	220	0 to ¼ inch	57.50
Zabovuc	11075	⅜ inch	A	110	0 to ⅜ inch	65.00
Zabovud	11094	⅜ inch	B	220	0 to ⅜ inch	67.00
Zabovuf	11095	½ inch Change of Speed.	A	110	0 to ½ inch	82.00
Zabovug	11096	½ inch Change of Speed.	B	220	0 to ½ inch	84.50

CHANDELIERS.



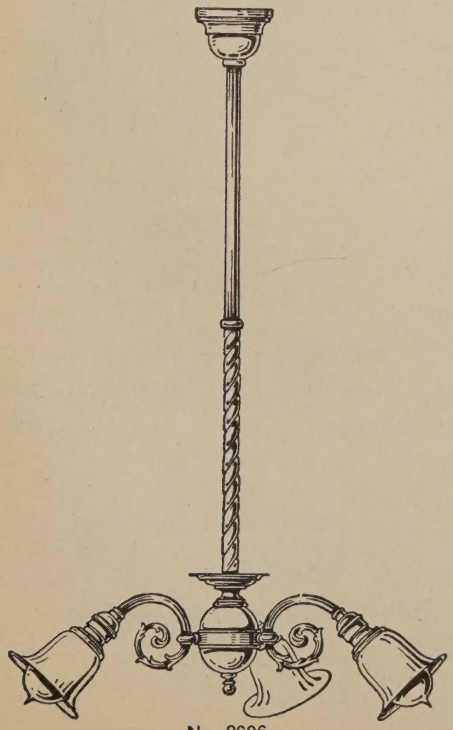
No. 8993.

No. 606.

Length, 36 inches.

Spread, 24 inches.

Code Word.	List No.		List Price, Each.
Zadeyin	8992	2 lights.....	$2.50
Zadeyip	8993	3 lights.....	3.35
Zadeyir	8994	4 lights.....	4.25



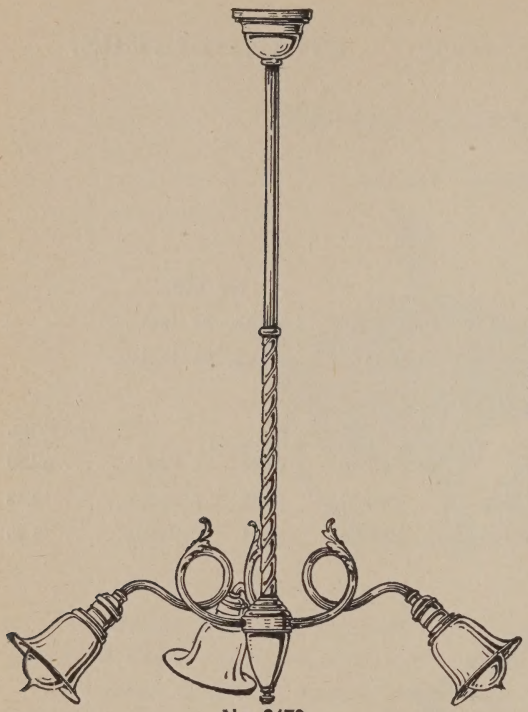
No. 3396.

No. 798.

Length, 36 inches.

Spread, 21 inches.

Zadeyis	8995	2 lights.....	5.00
Zadeyit	8996	3 lights.....	6.50
Zadeyiu	8997	4 lights.....	8.00



No. 9179.

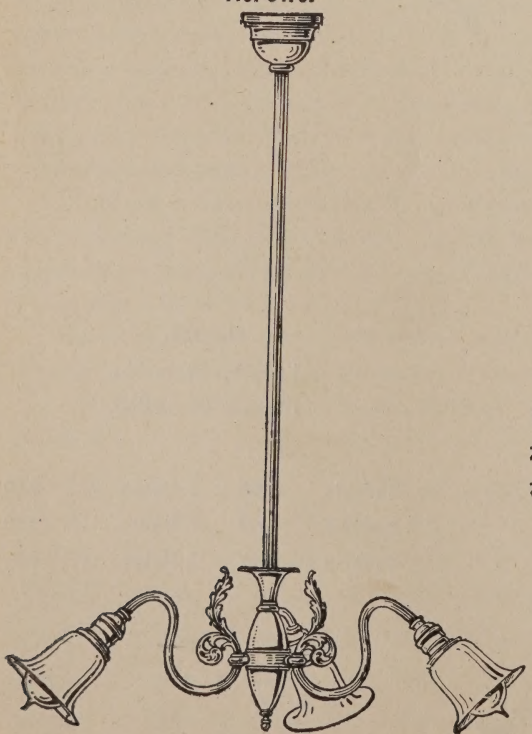
CHANDELIERS.

NO. 801.

Length, 36 inches.

Spread, 24 inches.

Code Word.	List No.		List Price, Each.
Zadeyuh	9178	2 Lights....	$3.75
Zadeyuk	9179	3 Lights....	5.00
Zadeyul	9180	4 Lights....	6.25



No. 9182.

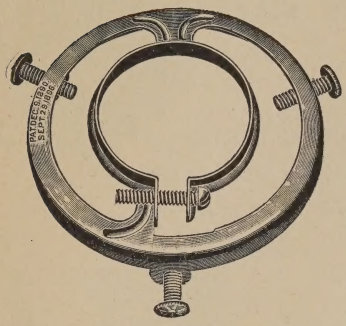
NO. 719.

Length, 36 inches.

Spread, 24 inches.

Zadeyum	9181	2 Lights....	6.00
Zadeyun	9182	3 Lights....	8.25
Zadeyup	9183	4 Lights....	10.50

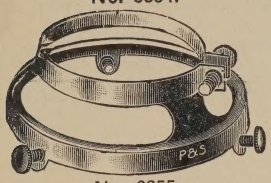
SHADE HOLDERS.



No. 3354.

STANDARD SHADE HOLDER.

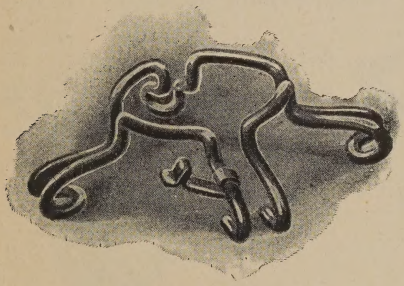
Code Word.	List No.		List Price, Per Doz.
Zadicow	3350	2¼ inch	$0.70
Zadicox	3351	3¼ inch	1.50
Zadicoy	3352	4 inch	3.60
Zadicoz	3353	2¼ inch, Oxidized	.90
Zadicu	3354	3¼ inch, Oxidized	1.80



No. 3355.

WEATHERPROOF SOCKET SHADE HOLDER.

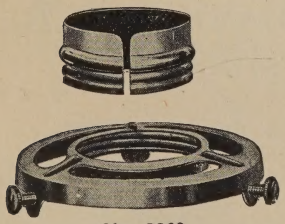
Zadicub	3355	2¼ inch	1.00
Zadicuc	3356	3¼ inch	1.80



No. 3357.

GEM SHADE HOLDER.

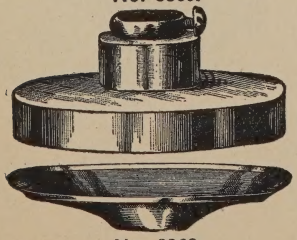
Zadicud	3357	2¼ inch	.70
Zadicuf	3358	3¼ inch	1.50
Zadicug	3359	1½ inch	.65



No. 3360.

HUBBEL SHADE HOLDER.

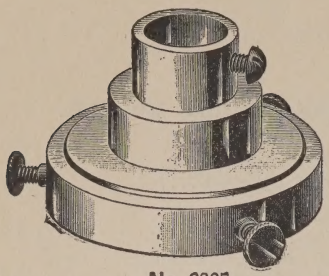
Zadicuh	3360	2¼ inch	.75
Zadicuk	3361	3¼ inch	1.50



No. 3362.

TWO-PIECE PIPE SHADE HOLDER.

Zadicul	3362	⅝ inch Brass Pipe	3.60



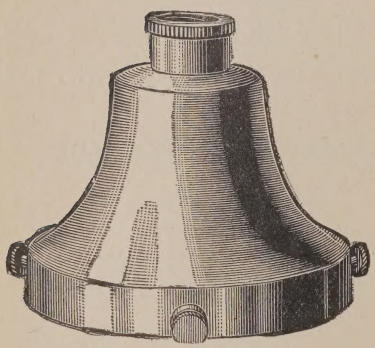
No. 2385.

SHADE HOLDERS.

PIPE SHADE HOLDERS.

(One Piece.)

Code Word.	List No.	Size.	Holder.	List Price, Each.
Zadicir	2385	⅝ in. brass pipe.....	3¼	$0.25
Zadicis	2386	¾ in. brass pipe.....	3¼	.25
Zadicit	2387	⅝ in. brass pipe.....	2¼	.25

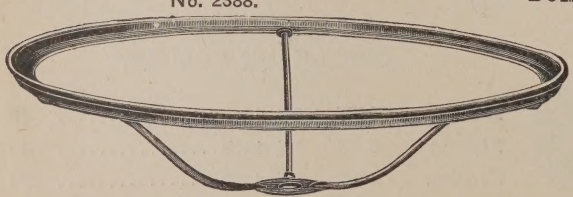


No. 2388.

WEATHERPROOF SHADE HOLDER.

⅝ Brass Pipe to Socket Thread.

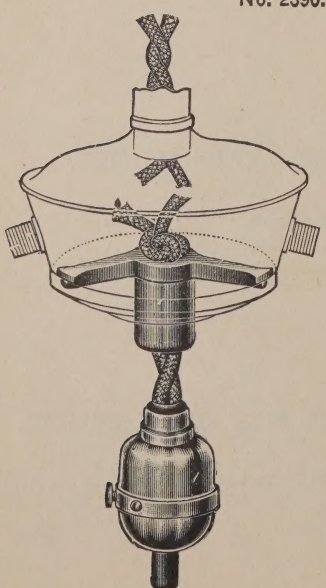
Zadiciv	2388	3¼ inch.....	.50



No. 2390.

DOME SHADE RING.

Zadiciw	2390	8 inches..	.55
Zadicix	2395	10 inches..	.60
Zadicip	2396	12 inches..	.80



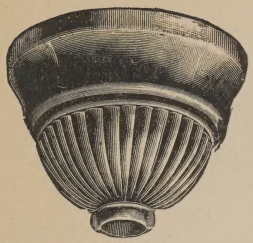
No. 2397.

PENDANT SWITCH SUPPORT.

(For Cluster Bodies.)

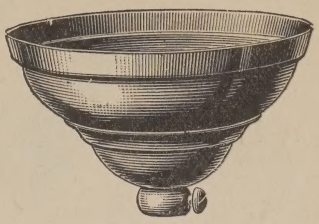
Zadiciz	2397	.....	.13

CANOPIES.



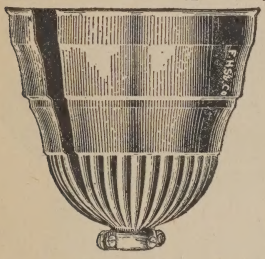
No. 3390.

Code Word.	List No.		List Price, Each.
Zadicum	3390	⅝ brass pipe.....	$0.30
Zadicun	3391	¾ brass pipe.....	.30



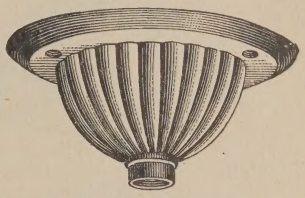
No. 3403.
GOOSE NECK CANOPIES.

Code Word.	List No.		List Price, Each.
Zadidac	3403	⅛ brass pipe.....	$0.25



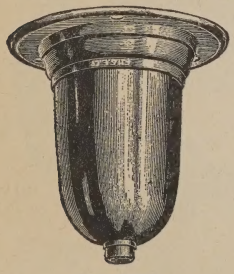
No. 3392.
SPLIT CANOPIES.

Zadicup	3392	⅝ inch.....	.80
Zadicur	3393	¾ inch.....	.85
Zadicus	3394	1 inch.....	1.00



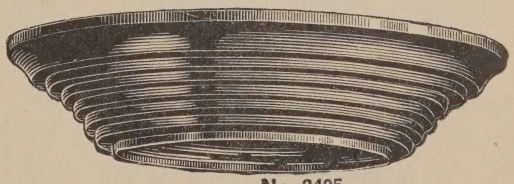
No. 3404.
CANOPY BRACKET BACK.

Zadidad	3404	For ⅛ inch pipe..	.28



No. 3395.
DEEP WALL PLATE.
Threaded.

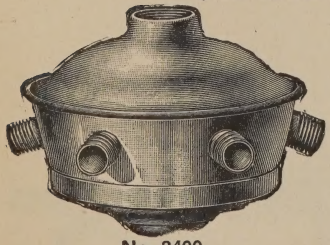
Zadicut	3395	3½x3½, for ⅛ inch goose necks.....	.60



No. 3405.
CANOPY EXTENSIONS.

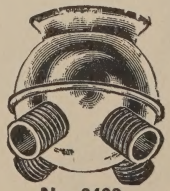
Zadidaf	3405	.....	.35

CLUSTERS.



No. 3400.

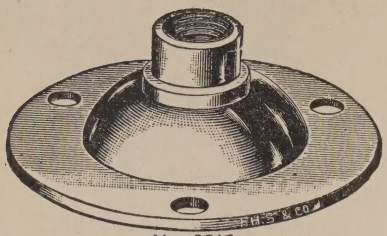
Zadicuv	3396	2 light.....	.36
Zadicuw	3397	3 light.....	.41
Zadicux	3398	4 light.....	.46
Zadicuy	3399	5 light.....	.51
Zadicuz	3400	6 light.....	.56
Zadida	3401	8 light.....	.66
Zadidab	3402	10 light.....	2.20



No. 3408.

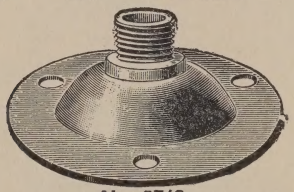
Zadidag	3406	2 light.....	.24
Zadidah	3407	3 light.....	.32
Zadidak	3408	4 light.....	.38
Zadidal	3409	5 light.....	.46
Zadidam	3410	6 light.....	.54

BRACKET BACKS.



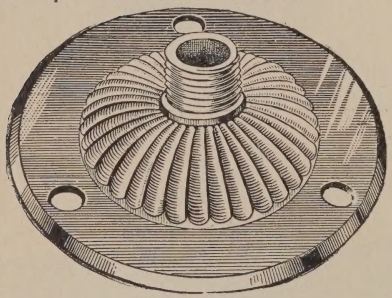
No. 3717.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zadidan	3717	1	2-inch.....	$0.10



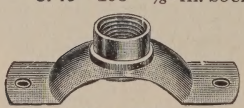
No. 3718.

Zadidap	3718	2	2-inch.....	.10



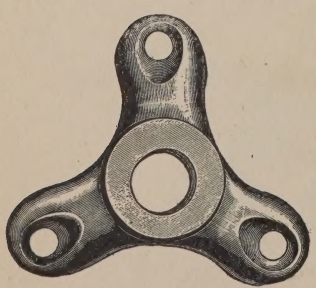
No. 3719.

Zadidar	3719	193	⅜-in. socket..	.45



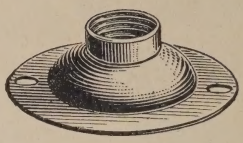
No. 3720.

Zadidas	3720	166	2x¾ inch.....	.11



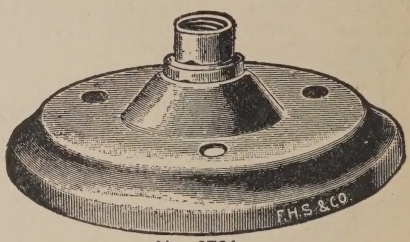
No. 3721.
CROWFOOT.
⅛, ¼, ⅜, ½, ⅝ iron.

				Per 100.
Zadidat	3721		Pipe thread.....	5.00



No. 3722.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zadidav	3722	5	1¼-in. female.	$0.06
Zadidaw	3723	7	1¼-in. male...	.06

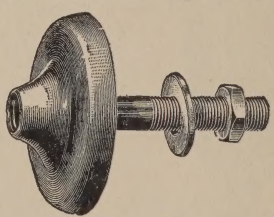


No. 3724.

Zadidax	3724	4	3-inch.....	.30
Zadiday	3725	8	3-inch, slotted base	.36

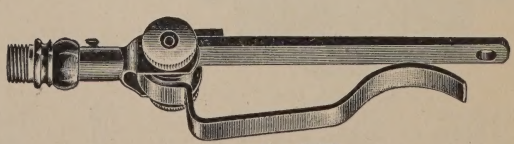
No. 3726.

Zadidaz	3726	6	1½ inch.....	.24



No. 3727.
SWITCHBOARD BRACKET BACK.

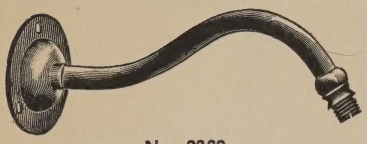
Zadide	3727	1734	.....	.27



No. 3728.
DESK CLAMP.

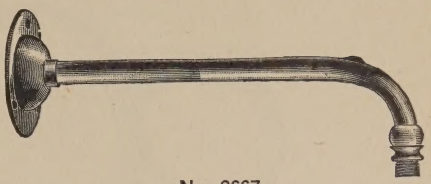
Zadideb	3728	97	.....	.45

BRACKETS.



No. 2369.
With 2 inch backs.

Code Word.	List No.		List Price, per 100.
Zadican	2369	4 inches long....	$24.00
Zadicap	2370	6 inches long....	26.00
Zadicar	2371	8 inches long....	30.00
Zadicas	2372	10 inches long....	33.00
Zadicat	2373	12 inches long....	44.00
Zadicav	2374	14 inches long....	52.00
Zadicaw	2375	16 inches long....	60.00
Zadicax	2376	18 inches long....	70.00



No. 2667.

With 2 inch backs.

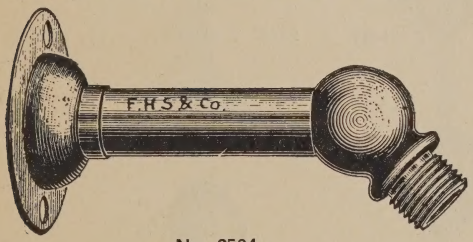
Code Word.	List No.		List Price, per 100.
Zadicel	2667	4 inches long....	$24.00
Zadicem	2668	6inches long....	26.00
Zadicen	2669	8 inches long....	30.00
Zadicep	2670	10 inches long....	33.00

No. 2377.

Zadicap	2377	10 inches long....	.68

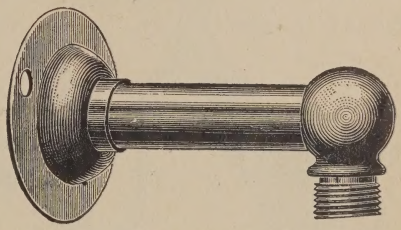
No. 2671.

Zadicer	2671	10 inches long....	.78



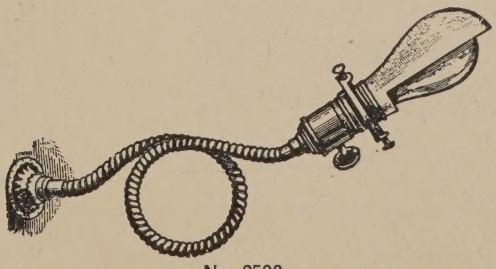
No. 2594.
1¼ inch back.

			Per Doz.
Zadicaz	2594	2 inch stem.....	2.00
Zadice	2595	3 inch stem.....	2.00
Zadiceb	2596	4 inch stem.....	2.25
Zadicec	2597	5 inch stem.....	2.75
Zadiced	2598	8 inch stem.....	3.25



No. 2672.
1¼ inch back.

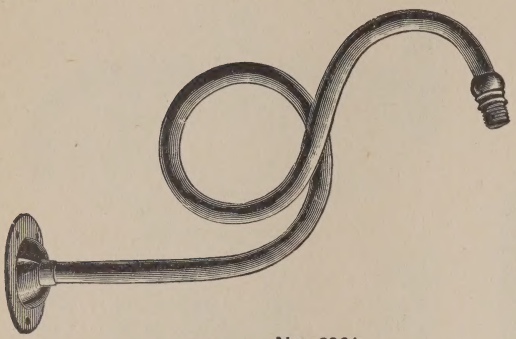
			Per Doz.
Zadices	2672	1 inch.....	1.90
Zadicet	2673	2 inch.....	2.00
Zadicev	2674	3 inch.....	2.00
Zadicew	2675	4 inch.....	2.25
Zadicex	2676	6 inch.....	2.75
Zadicey	2677	8 inch.....	3.25



No. 2599.
Almond Flexible Brackets.

			Each
Zadicef	2599	With back, 9 inches long.....	1.80
Zadiceg	2600	With back, 12 inches long.....	2.25
Zadiceh	2665	With back, 15 inches long.....	2.70
Zadicek	2666	With back, 18 inches long.....	3.30

BRACKETS.

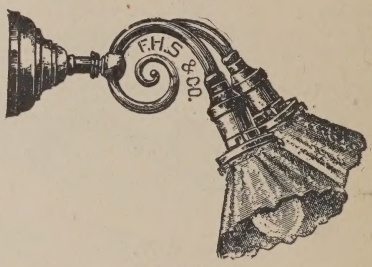


No. 2361.

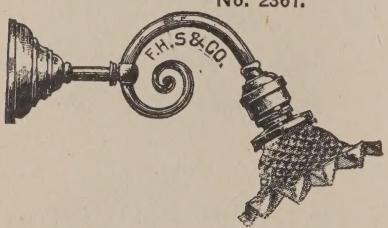
SNAKE BRACKETS.

With backs, 7 inches long.

Code Word.	List No.		List Price, Each.
Zadicac	2361	.....	$0.45

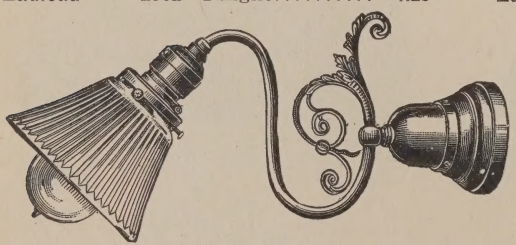


No. 2363.



No. 2362.

Zadicad	2362	1 Light.....	1.25	Zadicaf	2363	2 Lights.....	1.75



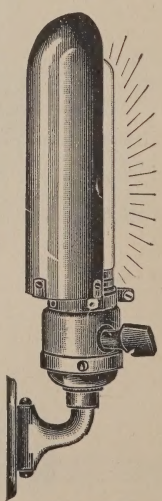
No. 2364.

Zadicag	2364	1 Light.....	2.00

No. 2365.

EXTENSION BRACKET.

Zadicah	2365	1 Light.....	4.00	Zadical	2367	Fixture only.....	.50
Zadicak	2366	2 Lights.....	4.50	Zadicam	2368	Fixture and shade...	1.20



No. 2368.

Show Case and Window Fixture.

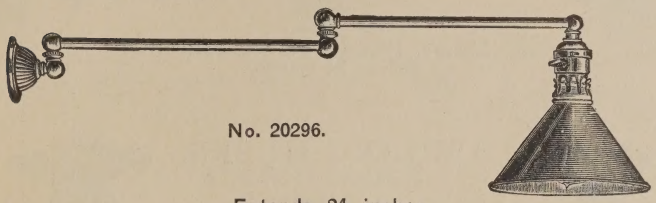
FARIES SWING BRACKETS.

No. 20294.

Extends 12 inches.

Heavy Cast Base.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zabiga	20294	180	Polished brass.....	$1.25
Zabigab	20295	180	Oxidized copper....	1.50

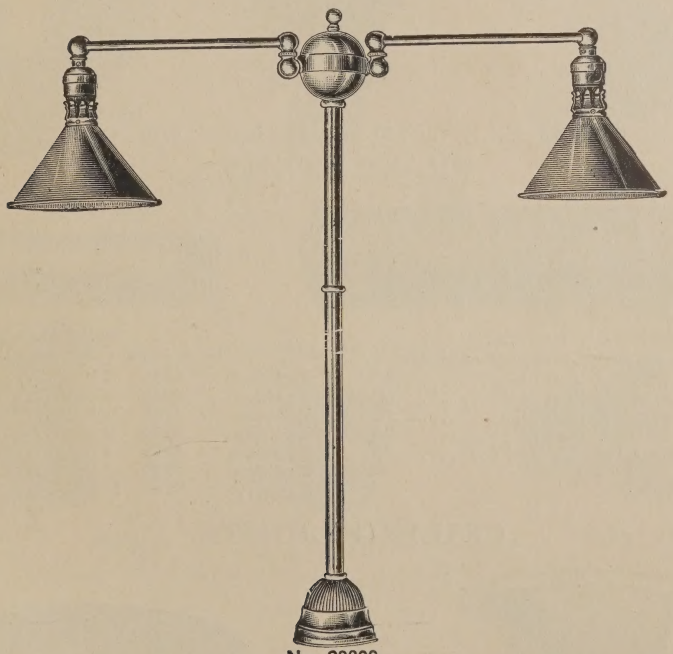


No. 20296.

Extends 24 inches.

Heavy Cast Base.

Zabigac	20296	181	Polished brass.....	2.50
Zabigad	20297	181	Oxidized copper.....	2.75



No. 20300.

Height 28 inches. **Spread 24 inches.**

With Canopy and Crowfoot. Must be screwed to desk.

One Light.

Zabigaf	20298	182	Polished brass.....	3.25
Zabigag	20299	182	Oxidized copper.....	3.75

Two Light.

Zabigah	20300	182	Polished brass.....	4.00
Zabigak	20301	182	Oxidized copper.....	4.50

PRICES DO NOT INCLUDE SHADE, LAMP, SOCKET OR WIRING.

BRACKETS.

No. 4731.
TWO LIGHT SINGLE SWING BRACKET.
Spread 24 inches.

Code Word.	List No.		List Price, Each.
Zadidec	4731		$5.50

CEILING HUSKS.

No. 4732.

Zadided	4732	Stamped.....	1.00

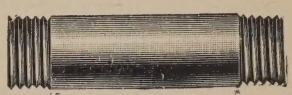
No. 4740.

Zadidep	4740	Cast.....	1.50

BRASS STEMS.

No. 4733.
⅝ inch; threaded each end.

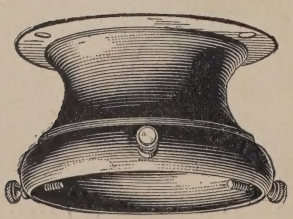
Zadidef	4733	6 inch piece.....	.36
Zadideg	4734	12 inch piece.....	.50
Zadideh	4735	18 inch piece.....	.70
Zadidek	4736	24 inch piece.....	.90
Zadidel	4737	Each extra foot....	.40



No. 4741.
⅛ inch (Threaded).

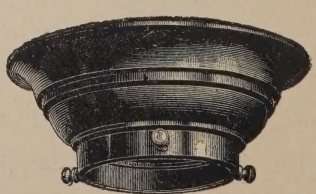
Zadider	4741	1 inch.....	.04
Zadides	4742	2 inch.....	.06
Zadidet	4743	3 inch.....	.08
Zadidev	4744	4 inch.....	.10
Zadidew	4745	6 inch.....	.14
Zadidex	4746	8 inch.....	.18
Zadidey	4747	10 inch.....	.20

CEILING LIGHTS.



No. 4738.
4 inches Diameter.
3¼ in. Shade Holder.

Zadidem	4738	For receptacles....	.84
Zadiden	4739	For sockets.....	1.10



No. 4748.
7 inches Diameter.

Zadidez	4748	3¼-in. shade holder.	.90
Zadidi	4749	4 -in. shade nolder.	1.00

FITTINGS.

NIPPLE.

No. 80.

	Per 100.
⅛x⅛, Iron	$3.00
⅜x⅜, Brass	3.00

SMALL NOZZLE.

No. 12.

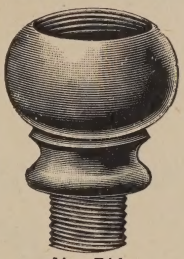
	Per 100.
⅛ to Socket	$5.00
7-16 to Socket	8.00

SIDE TAP.

No. 9.

	Per 100.
⅛ to Socket	$7.50

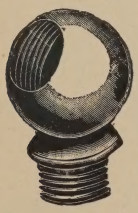
STRAIGHT NOZZLE.



No. 714.

¼ Iron to Socket	15.00
⅜ Iron to Socket	18.00
⅝ Brass to Socket	18.00

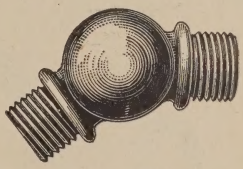
45° ANGLE NOZZLE.



No. 16A.

⅛ to Socket..... 12.00

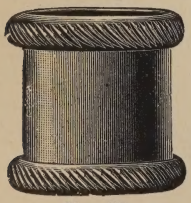
450 ANGLE NIPPLE.



No. 420.

⅛x⅛, Iron 15.00

COUPLING OR JOINT.



No. 55.

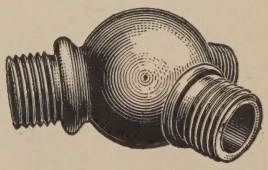
	Each
⅜x⅜, Iron	.24
⅝x⅝, Brass	.24

COUPLING OR JOINT.

No. 737.

⅛x⅛, Iron 8.00

450 DOUBLE ANGLE NIPPLE.



No. 422.

⅛x⅛, Iron 20.00

BUSHING.

No. 121A.

	Per 100.
⅜x⅛, Iron	5.00
⅛x¼, Iron	5.00
⅜x¼, Iron	6.00

BUSHING.

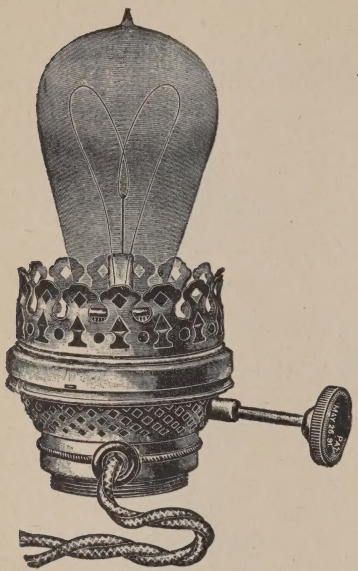
No. 122.

½x⅜, Iron	7.00
½x¼, Iron	8.00
½x¾, Iron	16.00

ANGLE ARM.

No. 4000.

Per Dozen..... 1.00



No. 28342.

NO. 6 OIL LAMP ADAPTER.

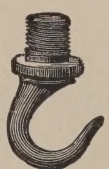
No. 3 Standard Thread.)

Code Word.	List No.		List Price, Each.
Zadifud	28342	.....	$5.00
Zadifuf	28343	Reducing and expanding collar	.75

CHANDELIER LOOP.

No. 28344.
Male and Female.
Each.
⅜ in. iron, .05.

CHANDELIER HOOK.

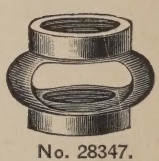


No. 28345.
Male.
Each.
⅜ in. iron, .05.

CHANDELIER HOOK.

No. 28346.
Female.
Each.
⅜ in. iron, .05.

HICKEYS.



No. 28347.
All Sizes.
Prices on application.

TERMINALS.

No. 28348.

No. 28349.

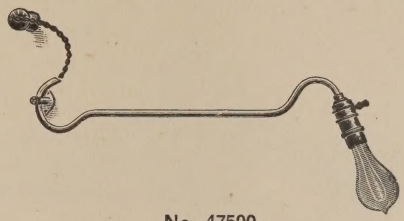
No. 28350.

No. 28351.

No. 28352.

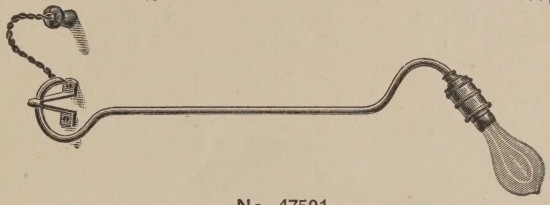
			Per Dozen.	Per 100.
Zadifug	28348	No. 0, Terminals.....	.30	2.00
Zadifuh	28349	No. 1, Terminals.....	.25	1.56
Zadifuk	28350	No. 2, Terminals.....	.20	1.32
Zadiful	28351	No. 3, Terminals.....	.15	.90
Zadifum	28352	No. 4, Terminals.....	.20	1.17

FARIES ADJUSTABLE BRACKETS.



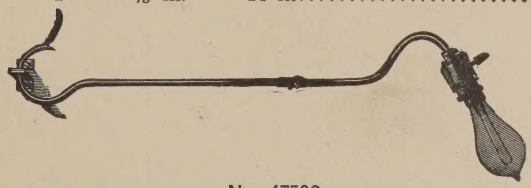
No. 47590.

Code Word.	List No.	Mfr. No.	Tubing.	Length.	List Price, Each— Pol. Brass.	Ox. Copper.
Zabakut	47590	1	⅜ in.	16 in.....	$0.60	$0.80



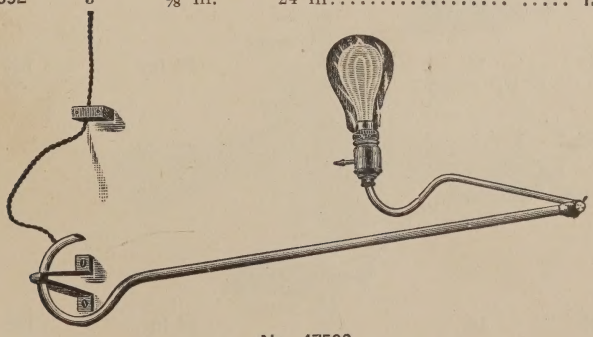
No. 47591.

Zabakuv	47591	2	⅜ in.	24 in.....	.70	.90



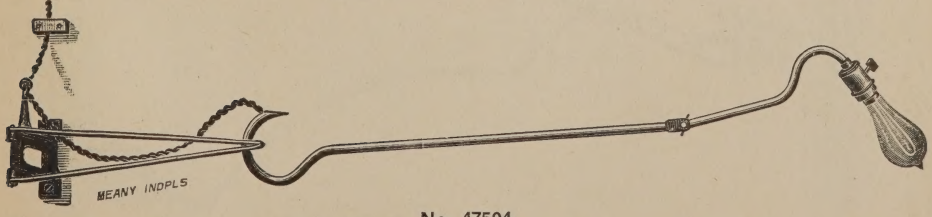
No. 47592.

Zabakuw	47592	3	⅜ in.	24 in.....	1.25	1.55



No. 47593.

Zabakux	47593	4	½ in.	40 in.....	1.60	1.90

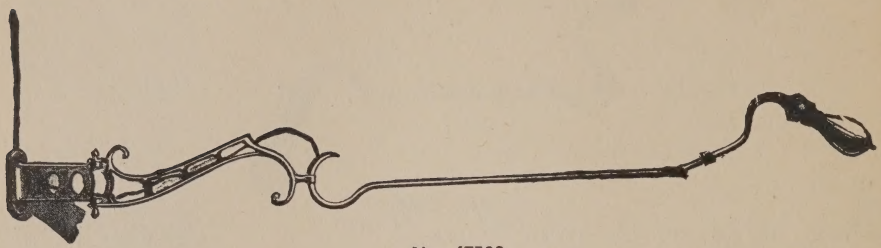


No. 47594.

Zabakuz	47594	5	½ in.	5 ft.....	2.40	2.70

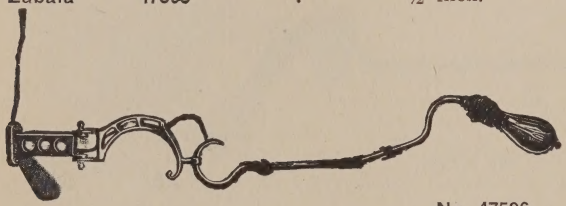
PRICES DO NOT INCLUDE SHADE, LAMP, SOCKET OR CORD.

FARIES ADJUSTABLE BRACKETS.



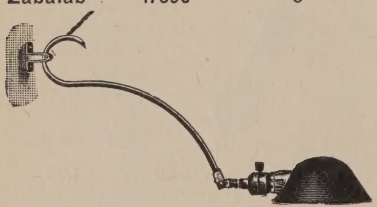
No. 47593.

Code Word.	List No.	Mfr. No.	Tubing.	Length.	List Price, Each. Pol. Brass.	Ox. Copper.
Zabala	47595	7	½ inch.	5 ft.	$5.00	$4.50



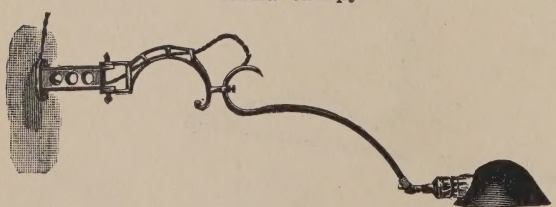
No. 47596.

Zabalab	47596	8	⅜ inch.	3 ft.	3.75	3.35



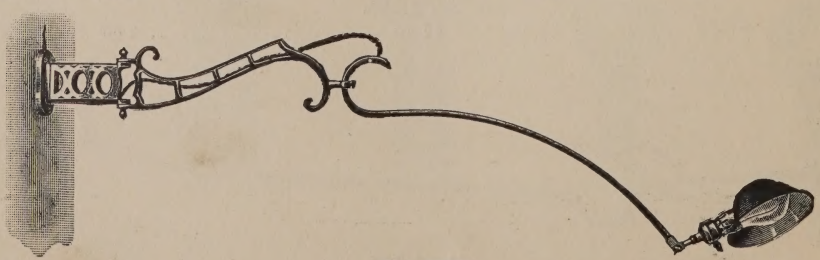
No. 47597.

Zabalad	47597	14		22 in.	1.10	1.30
		Extra canopy			.45	.55



No. 47598.

Zabalaf	47598	15		34 in.	3.25	2.85

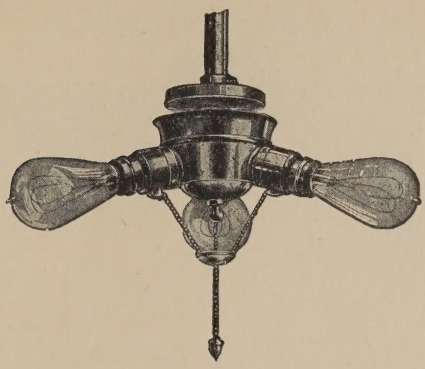


No. 47599.

Zabalag	47599	20		55 in.	4.50	4.00

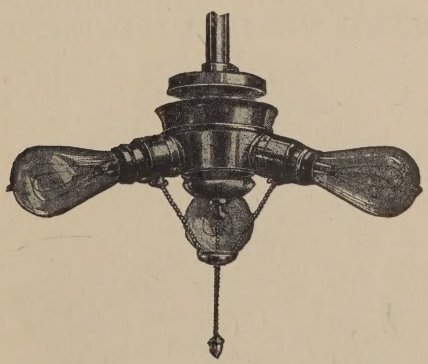
PRICES DO NOT INCLUDE SHADE, LAMP, SOCKET OR CORD.

HUBBELL STANDARD PULL CLUSTERS.



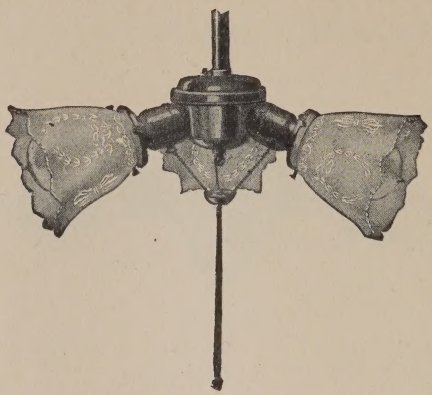
Code Word.	List No.	Mfr. No.		Std. Pkg.	Price Each.
Zabehib	49821	5135	2 Light Standard Pull Cluster, Ed. Base	10	$3.25
Zabehid	49822	5136	3 Light Standard Pull Cluster, Ed. Base	10	4.10
Zabehif	49823	5137	4 Light Standard Pull Cluster, Ed. Base	10	5.00
Zabehig	49824	5138	5 Light Standard Pull Cluster, Ed. Base	10	5.95
Zabehih	49825	5139	6 Light Standard Pull Cluster, Ed. Base	10	6.85
Zabehik	49826	5140	2 Light Standard Pull Cluster, T. H. Base	10	3.25
Zabehil	49827	5141	3 Light Standard Pull Cluster T. H. Base	10	4.10
Zabehim	49828	5142	4 Light Standard Pull Cluster, T. H. Base	10	5.00
Zabehin	49829	5143	5 Light Standard Pull Cluster, T. H. Base	10	5.95
Zabehip	49830	5144	6 Light Standard Pull Cluster, T. H. Base	10	6.85
Zabehir	49831	5145	2 Light Standard Pull Cluster, West. Base	10	3.25
Zabehis	49832	5146	3 Light Standard Pull Cluster, West. Base	10	4.10
Zabehit	49833	5147	4 Light Standard Pull Cluster, West. Base	10	5.00
Zabehiv	49834	5148	5 Light Standard Pull Cluster, West. Base	10	5.95
Zabehiw	49835	5149	6 Light Standard Pull Cluster, West. Base	10	6.85
Zabehix	49836	If furnished with chain over 3 feet in length add to list, per foot			.10
Zabehiz	49837	If furnished with sockets wired, add to list, per light			.20

HUBBELL SEPARABLE PULL CLUSTERS.



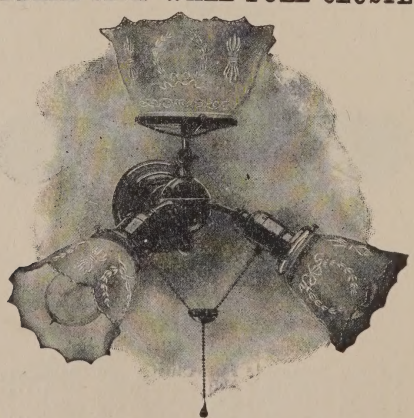
Zabeho	49838	5346	2 Light Separable Pull Cluster, Ed. Base	5	4.25
Zabehob	49839	5347	3 Light Separable Pull Cluster, Ed. Base	5	5.15
Zabehod	49840	5348	4 Light Separable Pull Cluster, Ed. Base	5	6.10
Zabehof	49841	5349	5 Light Separable Pull Cluster, Ed. Base	5	7.05
Zabehog	49842	5350	6 Light Separable Pull Cluster, Ed. Base	5	8.00
Zabehoh	49843	5351	2 Light Separable Pull Cluster, T. H. Base	5	4.25
Zabehok	49844	5352	3 Light Separable Pull Cluster, T. H. Base	5	5.15
Zabehol	49845	5353	4 Light Separable Pull Cluster, T. H. Base	5	6.10
Zabehom	49846	5354	5 Light Separable Pull Cluster, T. H. Base	5	7.05
Zabehon	49847	5355	6 Light Separable Pull Cluster, T. H. Base	5	8.00
Zabehop	49848	5356	2 Light Separable Pull Cluster, West. Base	5	4.25
Zabehor	49849	5357	3 Light Separable Pull Cluster, West. Base	5	5.15
Zabehos	49850	5358	4 Light Separable Pull Cluster, West. Base	5	6.10
Zabehot	49851	5359	5 Light Separable Pull Cluster, West. Base	5	7.05
Zabehov	49852	5360	6 Light Separable Pull Cluster, West. Base	5	8.00
Zabehow	49853	If furnished with special heavy chain over 3 feet in length add to list, per foot			.31
Zabehox	49854	If furnished with sockets wired, add to list, per light			.20

HUBBELL FIXTURE PULL CLUSTERS.



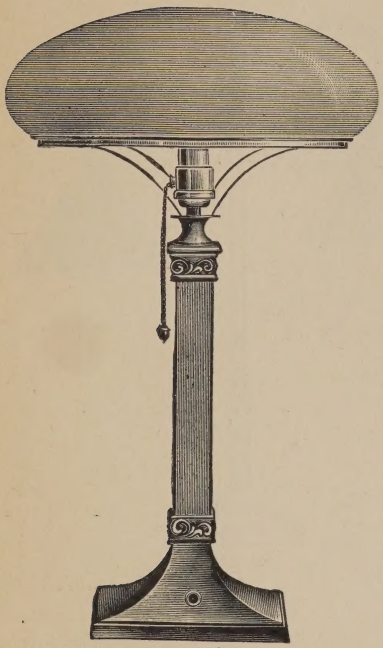
Code Word.	List No.	Mfr. No.			Std. Pck.	List Price, Each.
Zabehoz	49855	5384	2	Light Fixture, Pull Cluster, Edison Base.....	5	$3.55
Zabehu	49856	5385	3	" " " " " "	5	4.50
Zabehub	49857	5386	4	" " " " " "	5	5.50
Zabehud	49858	5387	5	" " " " " "	5	6.50
Zabehuf	49859	5388	6	" " " " " "	5	7.50
Zabehug	49860	5389	2	" " " " T.-H. "	5	3.55
Zabehuh	49861	5390	3	" " " " " "	5	4.50
Zabehuk	49862	5391	4	" " " " " "	5	5.50
Zabehul	49863	5392	5	" " " " " "	5	6.50
Zabehum	49864	5393	6	" " " " " "	5	7.50
Zabehun	49865	5394	2	" " " " West. "	5	3.55
Zabehup	49866	5395	3	" " " " " "	5	4.50
Zabehur	49867	5396	4	" " " " " "	5	5.50
Zabehus	49868	5397	5	" " " " " "	5	6.50
Zabehut	49869	5398	6	" " " " " "	5	7.50
Zabehuv	49870			If furnished with chain over 3 feet in length, add to list, per foot.....		.10
Zabehuw	49871			If furnished with sockets wired, add to list, per light		.20

HUBBELL SIDE WALL PULL CLUSTERS

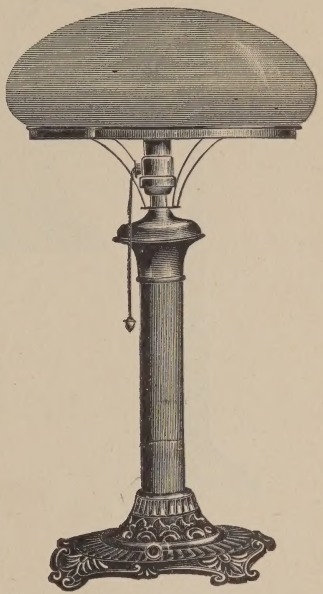


Zabehux	49872	5361	Side Wall Pull Cluster Combination Ed. Sockets...	5	7.75
Zabehuz	49873	5362	Side Wall Pull Cluster Combination T.-H. Sockets.	5	7.75
Zabeka	49874	5363	Side Wall Pull Cluster Combination West. Sockets.	5	7.75
Zabekab	49875	5400	Side Wall Pull Cluster Straight Electric Ed. Sockets	5	7.00
Zabekad	49876	5401	Side Wall Pull Cluster Straight Electric T.-H. Sockets	5	7.00
Zabekaf	49877	5402	Side Wall Pull Cluster Straight Electric West. Sockets	5	7.00
Zabekag	49878		If furnished with chain over 1 foot in length, add to list, per foot.....		.10
Zabekah	49879		If furnished wired, add to list.....		1.00

PORTABLES.

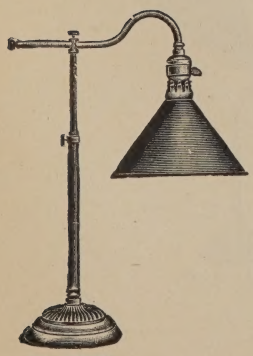


No. 8980.

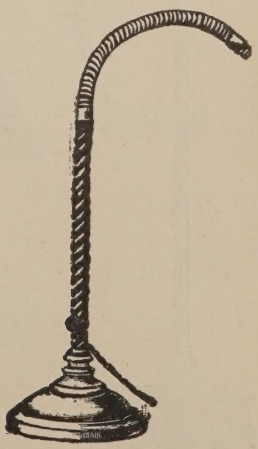


No. 8981.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zadeyen	8980	175		$8.00
Zadeyep	8981	168		2.60



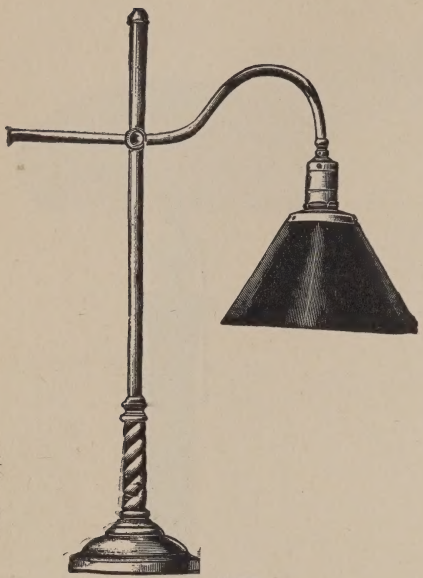
No. 8982.



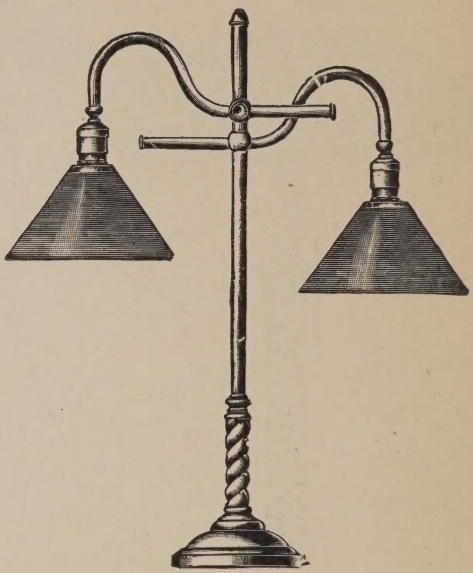
No. 8984.

Zadeyer	8982	23	Polished brass	2.00
Zadeyes	8983	23	Oxidized copper	2.25
Zadeyet	8984	40	Each, with 9 inch stem	3.00

PORTABLES.

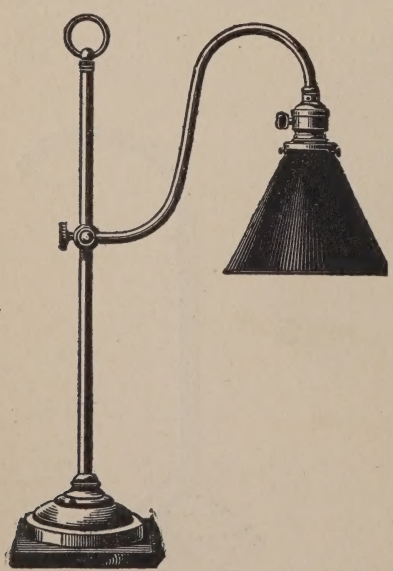


No. 9136.



No. 9137.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zadeyub	9136	20		$4.06
Zadeyuc	9137	25		5.56

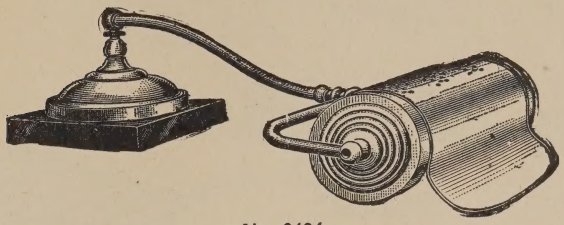


No. 9138.

No. 9139.

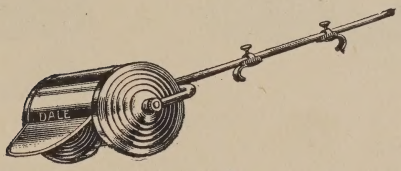
Zadeyud	9138	16		3.00
Zadeyuf	9139	22	Polished brass	1.45
Zadeyug	9140	22	Oxidized copper	1.65

PORTABLES.



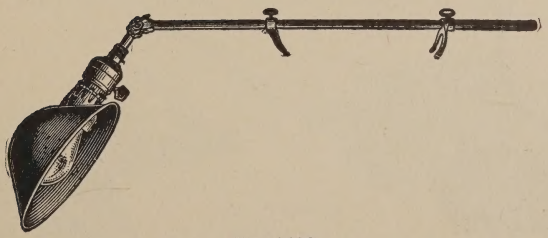
No. 9194.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zadeza	9194	190	Swing Portable—slate base	$4.50



No. 9195.

Zadezab	9195	23		3.50



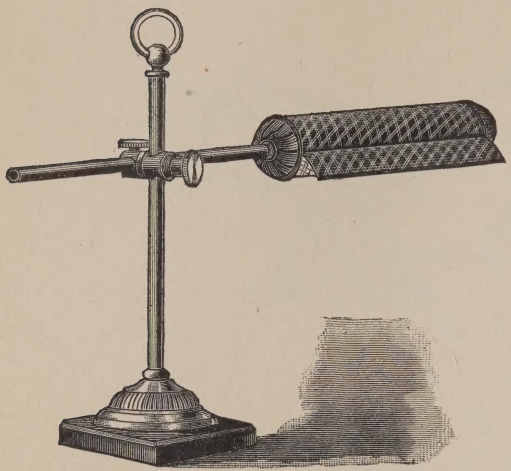
No. 9196.

Zadezac	9196	72		1.45

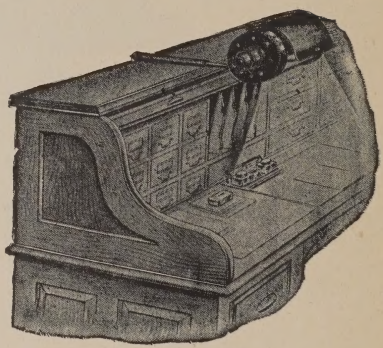
No. 9197.

Zadezad	9197	761	1 Light	3.50
Zadezaf	9198	762	2 Lights	4.00

PORTABLES.

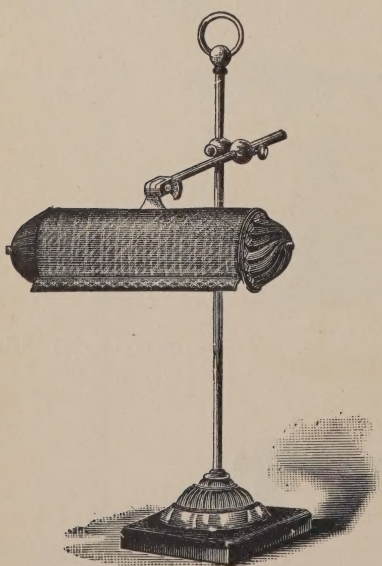


No. 9193.

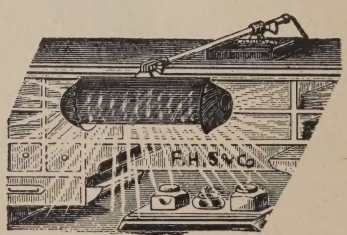


No. 9186.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zadeyuz	9193	750	.....	$4.50
Zadeyur	9186	1	Kinsman Desk Light, nickel plate.....	6.00
Zadeyus	9187	1	Kinsman Desk Light, oxidized copper.....	6.00



No. 9188.

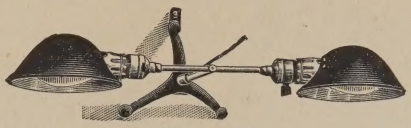


No. 9189.

(Slate Base.)

Zadeyut	9188	236	.....	5.00
Zadeyuv	9189	232	1 Light.....	3.50
Zadeyuw	9190	233	2 Lights.....	4.00
Zadeyux	9191	230	1 Light, fasten with screw.....	3.00
Zadeyuy	9192	231	2 Lights, fasten with screw.....	3.50

FARIES ADJUSTABLE PORTABLES.

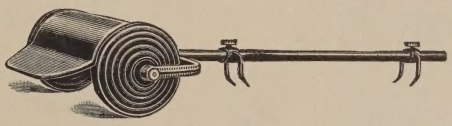


No. 47531.

Code Word.	List No.	Mfr. No.	Height.	Price List, Each. Pol. Brass.	On Copper.
Zabakem	47531	34	14 to 18 in.	$2.00	$2.00

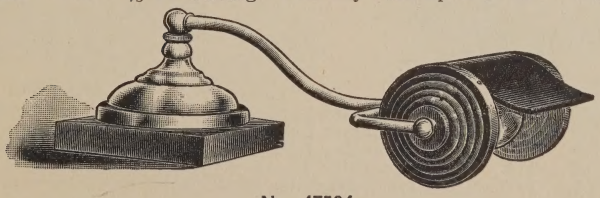
No. 47532.

Zabaken	47532	153	9 in. Arm	2.25	2.45



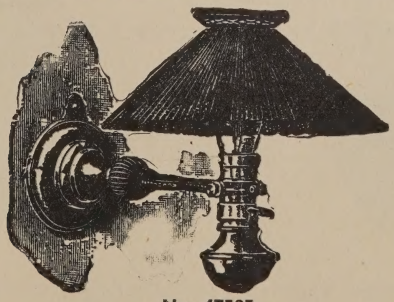
No. 47533.

Zabakep	47533	885	⅜ in. Tubing. Fits any desk up to 15 in.	3.50	3.90



No. 47534.

Zabaker	47534	827	Swinging Portable	4.50	5.00

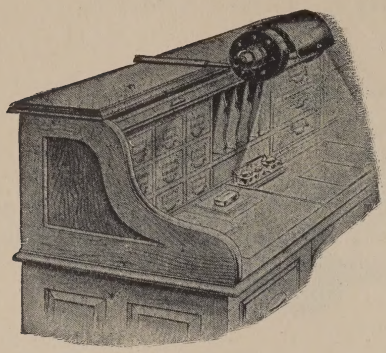


No. 47535.

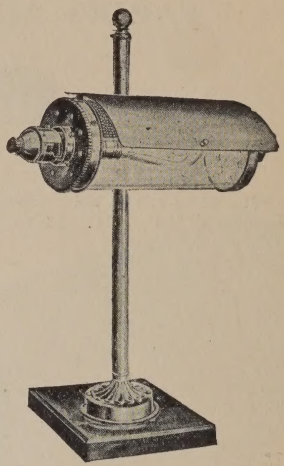
Zabakes	47535	152	For either Bracket or Portable	1.50	1.70

Prices do not include Shade, Lamp, Socket or Wiring.

PORTABLES.

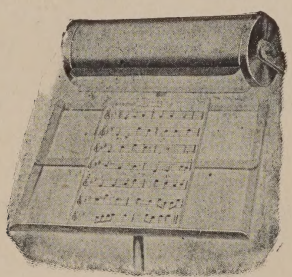


No. 4423.

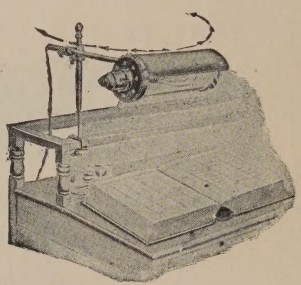


No. 4425.

Code Word.	List No.	Mfr. No.		List Price Each.
Expend	4423	1	Kinsman Desk Lamp, in any standard finish	$6.00
Expense	4424	6	Kinsman Double Cylinder Desk Lamp, as above	12.00
Experience	4425	5	Kinsman Portable, in any standard finish	7.00
Experiment	4426	7	Kinsman Double Cylinder Portable, as above	15.00
Expert	4427	8	Kinsman Double Head Portable, as above	13.00

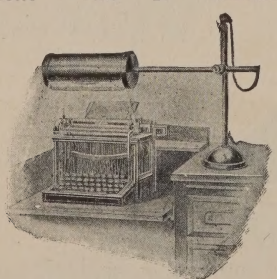


No. 4428.

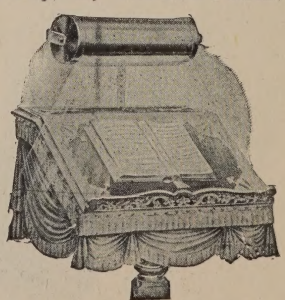


No. 4420.

Expiate	4428	10	Ward Orchestra Lamp, Dark Green, for one lamp	2.00
Expire	4429	10A	Ward Orchestra Lamp, Dark Green, for two lamps	4.00
Expiration	4430	11	Ward Orchestra Lamp, Standard Finishes, one lamp	4.00
Expediency	4419	11A	Ward Orchestra Lamp, Standard Finishes, two lamps	6.00
Expedient	4420	24	Kinsman Bookkeeper Desk Lamp, any Standard Finish.	7.00



No. 4421.

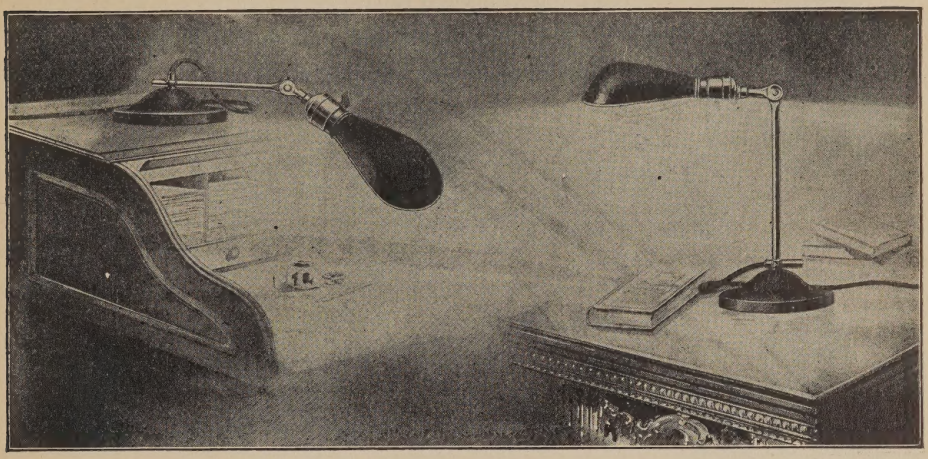


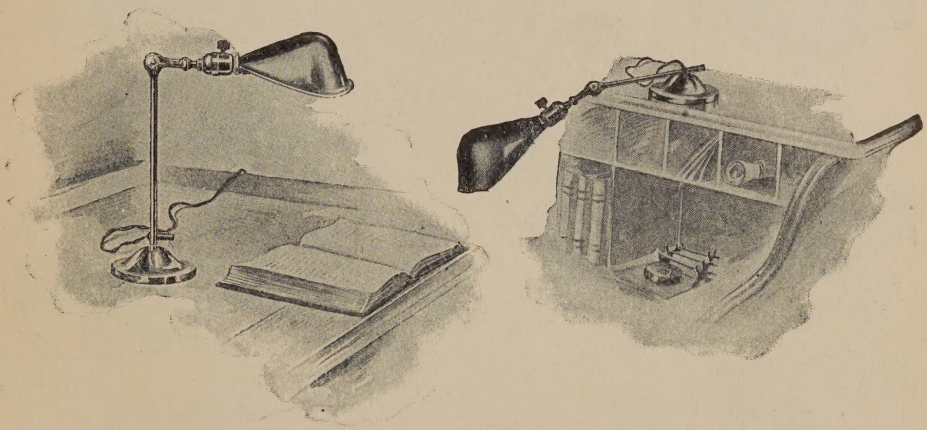
No. 3798.

Expedite	4421	25	Ward Typewriter Desk Lamp, any Standard Finish	7.00
Expedition	4422	26	Head only, any Standard Finish	2.00
Draughts	3797	27	Head only, Green Enamel	1.30
Drawee	3798	16	Ward Pulpit Lamp, any Standard Finish	5.00
Drawing	3799	17	Ward Pulpit Lamp, in Green Enamel	2.50

D'OLIER ADJUSTABLE PORTABLES.

WIRED COMPLETE WITH 6 FEET OF CORD, KEY SOCKET AND ATTACHMENT PLUG.



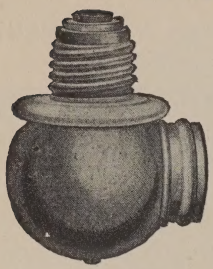


Can be instantly changed from a vertical to an horizontal position.

All portables are wired complete, including 6 feet of cord, attachment plug, key socket and shade.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zabomem	209	1	Dipped brass, satin finish	$2.80
Zabomen	210	2	Brush brass	3.08
Zabomep	211	3	Oxidized copper	3.08
Zabomer	212	4	Nickel	3.08
Zabomes	213	5	Gun metal black	3.08
Zabomet	214	6	Polished brass	3.08
Zabomev	215	7	Black base, polished brass stem green enameled shade	2.50

D'OLIER FIXTURE SPECIALTIES.



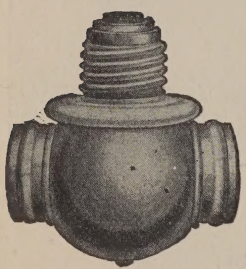
No. 1610.

D'OLIER BALANCED ROTARY SOCKET.

The D'Olier Balanced Rotary Socket allows a lamp to be suspended in an horizontal position, and also rotate around the axis of the cord or socket. Any of our standard half shades may be used with this socket.

Code Word.	List No.		List Price, Each.
Zabomew	1610	Dipped brass	$1.25

D'OLIER ROTARY TWIN SOCKET.



No. 1611.

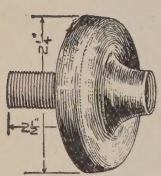
The Rotating Twin Socket allows the same advantages as the single Rotating Socket. Also the additional advantage of two lights or an attachment plug for fan connection.

Zabomex	1611	Dipped brass	1.25

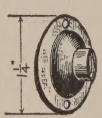
SPECIAL FINISHES.

Dull brass, polished brass, oxidized copper, nickel, gun metal black.

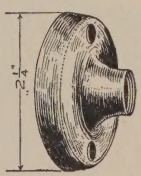
Add 10 per cent for Special Finishes.



No. 1600.



No. 1602.



No. 1601.

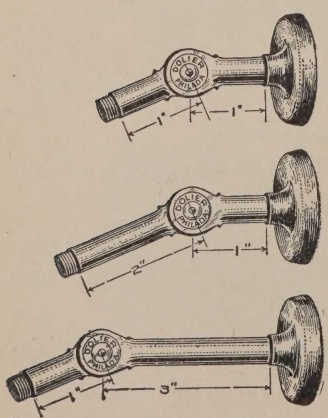
BRACKET PLATES.

DIPPED BRASS.

Zabomey	1600	Switch Board	.12
Zabomez	1601	Concealed outlet	.08
Zabomi	1602	Moulding	.04

ADJUSTABLE BRACKET.

(Back Plate extra.)



Nos. 1603, 1604 and 1605.

DIPPED BRASS.

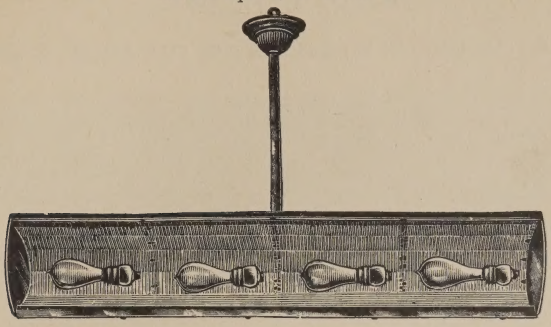
Zabomib	1603	(1x1 in.)	.20
Zabomic	1604	(2x1 in.)	.24
Zabomid	1605	(1x3 in.)	.28
Zabomif	1606	(1x4 in.)	.32
Zabomig	1607	(1x5 in.)	.36
Zabomih	1608	(1x6 in.)	.40
Zabomik	1609	(1x7 in.)	.44

SPECIAL FINISHES.

Dull brass, polished brass, oxidized copper, nickel, gun metal black.
25 per cent extra.

FRINK SPECIAL PATENT WINDOW REFLECTOR.

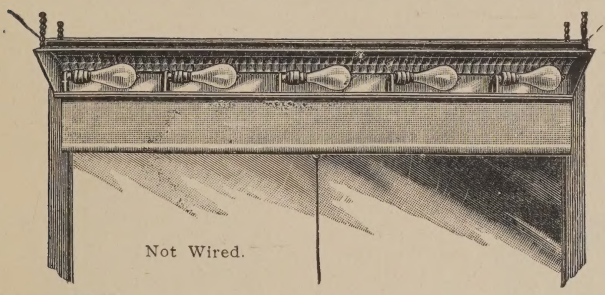
To get best results, reflectors should be used entire width of window with lamps 9 or 12 inches apart, as desired.

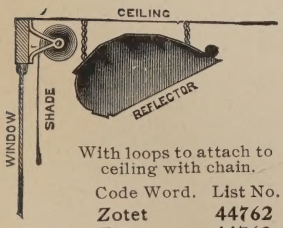


Suspended from ceiling with one or more stems, as desired. Not wired. Sockets and lamps not included.

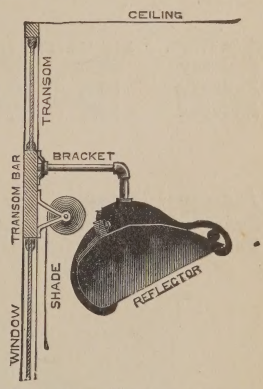
Code Word.	List No.		List Price Per Foot.
Zotep	44759	Lined with Silver-Plated Corrugated Glass	$2.50
Zoter	44760	Lined with Mirror Plate Glass	2.30
Zotes	44761	Bright Corrugated Metal	1.80

FRINK SPECIAL PATENT WINDOW REFLECTOR.





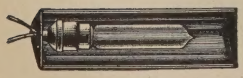
With loops to attach to ceiling with chain.



With adjustable brackets to attach to the transom bar.

Code Word.	List No.		List Price Per Foot.
Zotet	44762	Lined with Silver-Plated Corrugated Glass	$2.20
Zotev	44763	Lined with Mirror Plate Glass	2.00
Zotew	44764	Bright Corrugated Metal	1.50
Zotex	44765	Lined with Silver-Plated Corrugated Glass	2.50
Zotez	44766	Lined with Mirror Plate Glass	2.30
Zoti	44767	Bright Corrugated Metal	1.80

SINGLE LIGHT CASE REFLECTORS.



TEN-INCH SECTIONS.

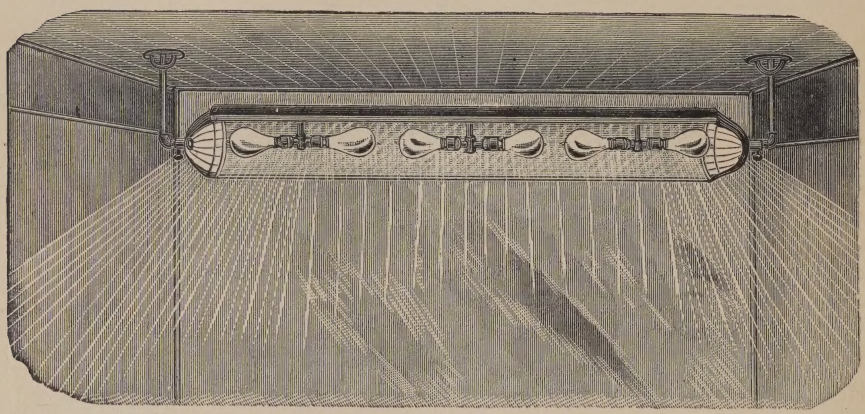
Zotib	44768	Nickel-plated finish, lined with Mirror Glass	1.30
Zotid	44769	Tin frame, painted one color, lined with Mirror Glass	1.10
Zotif	44770	Tin frame, painted, bright nickel metal inside	.75

NINE-INCH SECTIONS.

Zotig	44771	Nickel-plated finish, lined with Mirror Glass	1.20
Zotih	44772	Tin frame, painted one color, lined with Mirror Glass	1.00
Zotik	44773	Tin frame, painted, bright nickel metal inside	.70

REFLECTORS.

"KLEMM" ADJUSTABLE REFLECTORS FOR SHOW-WINDOWS.



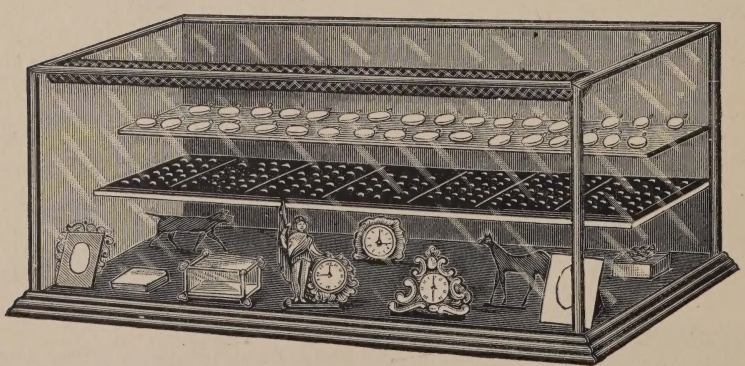
Corrugated Polished Metal.

Code Word.	List No.	Mfr. No.	Size.	List Price, per Foot.
Zadeyey	8985	239	6½ inch	$1.35
Zadeyew	8986	239½	4 inch	1.20
Zadeyex	8987	239¾	3 inch	1.20

Corrugated Silvered Glass.

Zadeyey	8988	932	6½ inch	2.25
Zadeyez	8989	932½	4 inch	2.10
Zadeyi	8990	932¾	3 inch	2.10

"KLEMM" SHOW-CASE REFLECTORS.

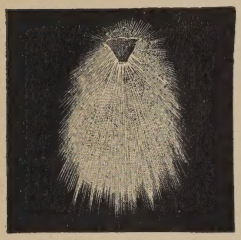


These reflectors are made in continuous lengths to fit the inside of the show-case and are hung on small adjustable brackets at each end. They are 2 inches in diameter and the lights are spaced one to two feet apart. They make a very neat and effective way of lighting the cases.

Zadeyib	8991	Complete with brackets	1.05

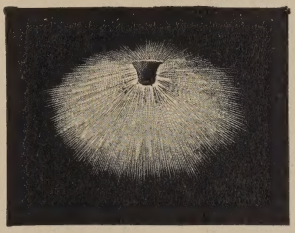
Wiring and Edison Bung-hole Sockets .45 each extra.

HOLOPHANE GLOBES AND REFLECTORS — THEIR USE.



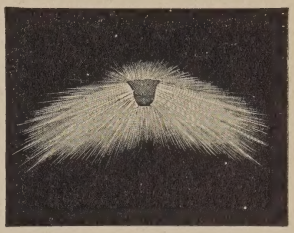
Class A Globes.

Throw the maximum light directly downward, as used on chandeliers over reading tables, dining-room tables, etc.



Class B Globes.

Throw a maximum light at an angle of 45 degrees, and which are used principally for general illumination.

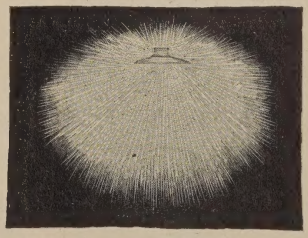


Class C Globes.

Throw a maximum illumination at from 10 to 15 degrees below the horizontal, designed to light large areas, streets, etc.

Holophane Globes are made with internal and external prisms which diffuse and throw the light in directions as shown in cuts. Owing to the clear crystal glass employed in their manufacture, Holophane Globes have a very low absorption factor. They are classified as Class A, Class B and Class C. In this way globes can be secured to meet any lighting conditions.

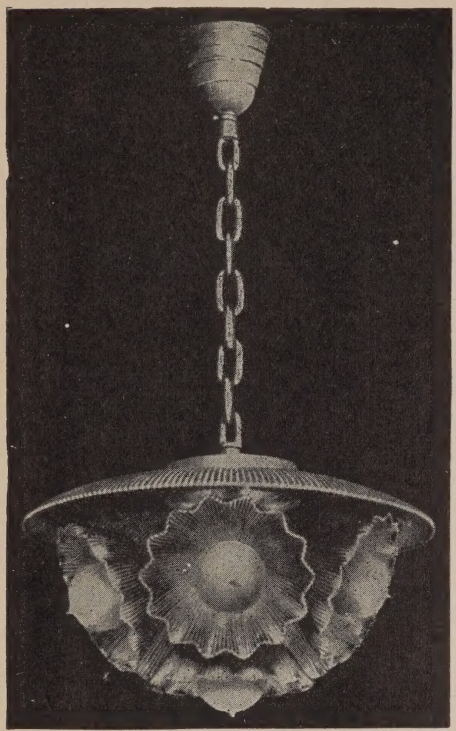
Style "C."



Style "D."

Holophane Reflectors (formerly known as "Pagoda" reflectors) are made with one set of prisms on the outside only, being smooth inside. Owing to this construction an accumulation of dust on prisms will not lessen their reflecting powers in the least. They either concentrate strongly or spread the light, and, being made of perfectly clear glass, allow just enough light to pass through them to light up the ceiling and also avoid the shadow against the ceiling caused by an opaque or backed reflector. They are classified as Style "C" (concentrating) and Style "D" (distributing). As with Holophane Globes a reflector can be had to meet any lighting condition.

Holophane Globes must not be used in any other position than specified, as shown in the illustrations which are set in correct positions. Pendants can, however, be used at 45 degrees.



No. 26117.
Holophane Arc, 1/8 Size.

HOLOPHANE ARCS.

HOLOPHANE ARC FOR 40 C. P. 100 WATT GEM LAMPS.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacoxut	26115	64	4 Lights....	$20.80
Zacoxuv	26116	65	5 Lights.....	22.10
Zacoxuw	26117	66	6 Lights....	23.40

List Prices.

HOLOPHANE ARC FOR 16 C. P. STANDARD LAMPS.

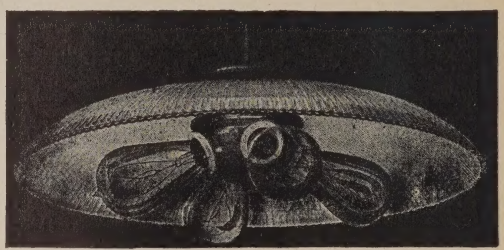
Zacoxux	26118	54	4 Lights....	11.65
Zacoxuy	26119	55	5 Lights....	12.40
Zacoxuz	26120	56	6 Lights....	13.15
Zacoya	26121	57	7 Lights....	14.00

List Prices.

HOLOPHANE ARC FOR 22 C. P. 44 WATT TANTALUM LAMPS.

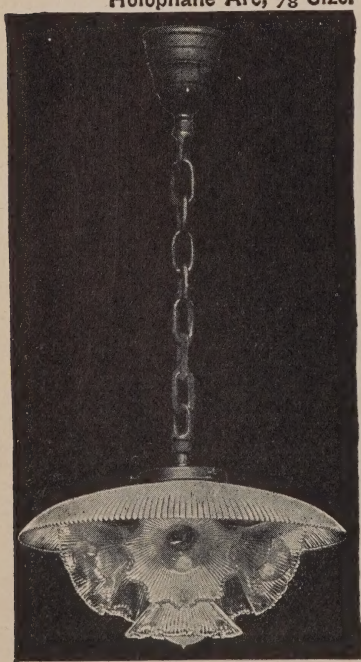
Zaccyab	26122	74	4 Lights....	13.55
Zacoyac	26123	75	5 Lights....	14.50
Zacoyad	26124	76	6 Lights....	15.45

List Prices.

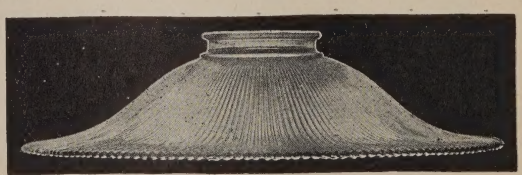


No. 26127.
Holophane Reflector.

			Holder.....	Width.....	Height.....	List Price, per Doz..	Doz. in Barrel...
Zacoyaf	26125	2552	3¼	9¾	2½	$16.00	3
Zacoyag	26126	2562	4	12¾	3¼	30.00	1
Zacoyah	26127	2522	4	16	4	60.00	1½



No. 26120.
Holophane Arc, 1-12 Size.



No. 26133.
Holophane Reflector.

			Holder.....	Width.....	Height.....	List Price, per Doz..	Doz. in Barrel...
Zacoyak	26128	9273	2¼	9⅜	2½	$13.00	3
Zacoyal	26129	9283	2¼	10¾	2⅞	20.00	3
Zacoyam	26130	9293	2¼	12⅛	3¼	25.00	2
Zacoyan	26131	9303	2¼	13⅜	3⅝	30.00	1½
Zacoyap	26132	2563	4	13	3⅛	30.00	1
Zacoyar	26133	2513	4	16	4	60.00	½
Zacoyas	26134	2517	6⅛	20	5	180.00	½

PAGODA SHADES.

No. 9984.

No. 9987.

Code Word.	List No.	Mfr. No.	Holder.	Size.	Std. Pkg.	List Price. Per Doz.
Zadibef	9984	2631	1⅝ in.	3½ x 5½ in.	10 doz.	$8.50
Zadibeg	9985	2633	2¼ in.	3¾ x 6 in.	8 doz.	10.00
Zadibeh	9986	2641	1⅝ in.	4½ x 7½ in.	6 doz.	12.50
Zadibek	9987	2301	2¼ in.	3¼ x 7 in.	6 doz.	8.00

No. 9988.

No. 9989.

Zadibel	9988	1431	3¼ in.	14 in.	1 doz.	$30.00
Zadibem	9989	2621	1⅝ in.	3¾ x 6 in.	8 doz.	8.50
Zadiben	9990	2623	2¼ in.	3½ x 6½ in.	8 doz.	10.00
Zadibep	9991	2673	2¼ in.	4¼ x 7½ in.	4 doz.	12.00
Zadiber	9992	2651	2¼ in.	5 x 9½ in.	2 doz.	18.00

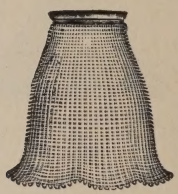
No. 9993.

No. 9995.

Zadibes	9993	2657	Crimped	1⅝ in.	4¾ x 4 in.	10 doz.	$8.00
Zadibet	9994	2676	Plain	1⅝ in.	4¼ x 3¼ in.	15 doz.	7.00
Zadibev	9995	2663		2¼ in.	2¾ x 6½ in.	7 doz.	9.00

HOLOPHANE SHADES.

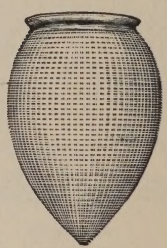
No. 9975.



No. 9976.

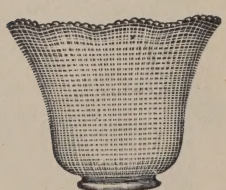
Code Word.	List No.	Mfr. No.	Class.	Holder	Width.	Length.	Std. Pkg.	List Price, per Doz.
Zadezun	9975	2450	B	2¼ in.	5½ in.	4 in.	6 doz.	$11.00
Zadezup	9976	2250	B	2¼ in.	4¾ in.	4¾ in.	8 doz.	9.00

No. 9977.

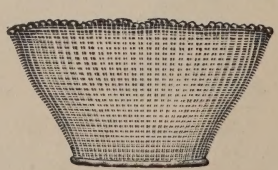


No. 9980.

Zadezur	9977	3358	B	3¼ in.	4¾ in.	5 in.	5 doz.	12.00
Zadezus	9978	3350	A	3¼ in.	6 in.	6 in.	2¾ doz.	20.00
Zadezut	9979	3354	A	4 in.	6 in.	6 in.	2¾ doz.	20.00
Zadezuv	9980	3158	B	3¼ in.	3½ in.	5¼ in.	7 doz.	9.00
Zadezuw	9981	3150	B	3¼ in.	4½ in.	6¼ in.	5 doz.	12.00



No. 9982.

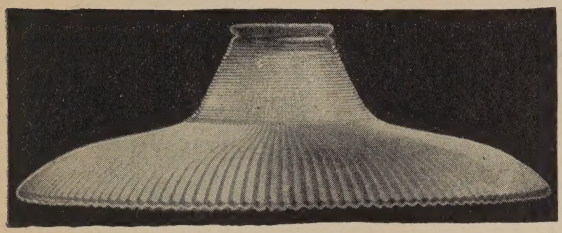


No. 9983.

Zadezux	9982	2805	B	2¼ in.	5½ in.	4½ in.	5 doz.	11.00
Zadezuy	9983	4101	A	4 in.	7½ in.	4 in.	3 doz.	15.00

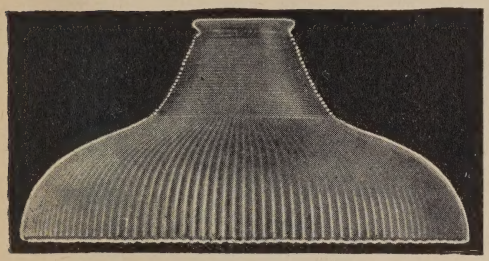
HOLOPHANE REFLECTORS.

FOR HIGH EFFICIENCY GEM AND MERIDIAN LAMPS.

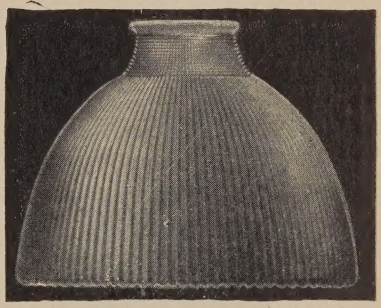


Form "D," Distributing.

Form "H" Shade Holder.



Form "C," Concentrating.

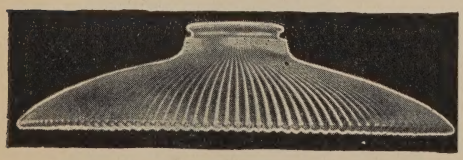


Form "B," Distributing Inverted "Bowl."

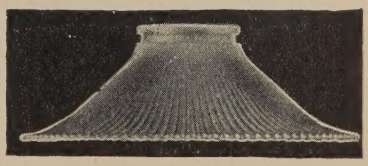
Code Word.	List No.	Wattage of Lamp.	Nominal C. P.	Type.	Mfr. No.	List Price, per Doz.	Holder.	Width.	Height.	Dozen, Barrel.
Zacoxoh	26087	50	20	*1-C	6020	$12.75	2¼	6¾	2⅞	6
Zacoxok	26088	100	40	2-C	6040	16.75	2¼	8	3 13-16	3½
Zacoxol	26089	125	50	3-C	6050	22.00	2¼	9⅛	4¼	2
Zacoxom	26090	187	75	4-C	6075	27.50	2¼	9¾	4 15-16	2
Zacoxon	26091	250	100	5-C	6100	33.00	2¼	11⅛	5	2
Zacoxop	26092	50	20	*1-D	6022	12.75	2¼	7⅜	2¼	6
Zacoxor	26093	100	40	2-D	6042	16.75	2¼	9⅛	3 1-16	3½
Zacoxos	26094	125	50	3-D	6052	22.00	2¼	10⅛	3⅞	2
Zacoxot	26095	187	75	4-D	6072	27.50	2¼	11 7-16	3⅞	1
Zacoxov	26096	250	100	5-D	6102	33.00	2¼	12½	4 3-16	1
Zacoxow	26097	50	20	*1-B	6035	12.75	2¼	5¾	4⅛	6
Zacoxox	26098	100	40	2-B	6045	16.75	2¼	6¾	5	4
Zacoxoy	26099	125	50	3-B	6060	22.00	2¼	7⅝	5⅞	3
Zacoxoz	26100	187	75	4-B	6080	30.00	2¼	8⅞	6⅜	1⅔
Zacoxu	26101	250	100	5-B	6110	37.50	2¼	10⅜	6⅞	1

Form "H" holders as shown list at 25 cents each. Same discounts as on reflectors. *Take Standard, not Form "H" holders.

FOR MERIDIAN OR ZENITH TYPE LAMPS.



New Type "S."

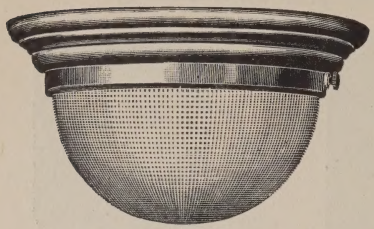


Old Type "P."

		C. P. of Lamp.	Type.						
Zacoxub	26102	25	S-1	6008	11.00	2¼	8¼	1⅝	7
Zacoxuc	26103	50	S-2	6010	16.50	2¼	10⅛	2¼	3
Zacoxud	26104	25	1-P	2555	9.25	2¼	2½	1⅞	14
Zacoxuf	26105	50	2-P	2575	13.75	2¼	7¼	3½	7

Form "H" holders as shown above list at 25 cents each. Same discounts as on reflectors.

HOLOPHANE GLOBES AND HOLDERS.

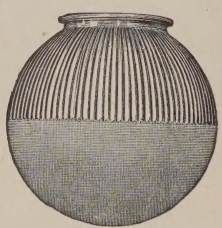


No. 9952.

HOLOPHANE BOWLS.

Ceiling Band not Included.

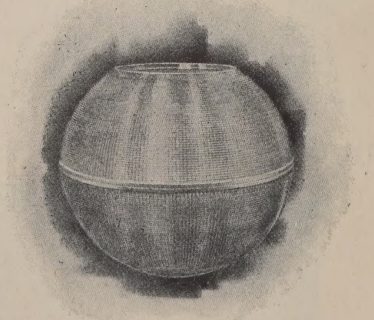
Code Word.	List No.	Mfr. No.	Class.	Diameter Under Flange, Inches.	List Price, Each.
Zadezoh	9952	1001	A	10	$3.00
Zadezok	9953	1201	A	12	5.00
Zadezol	9954	1401	B	14	10.00
Zadezom	9955	1601	B	16	15.00



No. 9956.

PAGODA BALL SHADES.

			Holder, Ins.	Diam., Ins.	Pkg., Doz.	Std. Per Doz.
Zadezon	9956	9136	3¼	6	2	36.00
Zadezop	9957	9137	3¼	7	1½	48.00
Zadezor	9958	9148	3¼	8	1	72.00

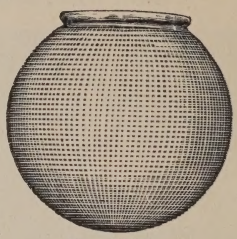


No. 9959.

GLOBE USED WITH HOWE HOLDER.

Non-Flanged.

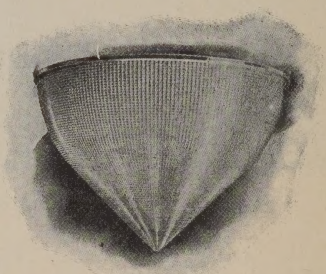
			Class.	Diam.	Each.
Zadezos	9959	1040	B	10	6.00
Zadezot	9960	1240	B	12	10.00
Zadezov	9961	1440	B	14	20.00
Zadezow	9962	1640	B	16	30.00



No. 9963.

HOLOPHANE BALL SHADES.

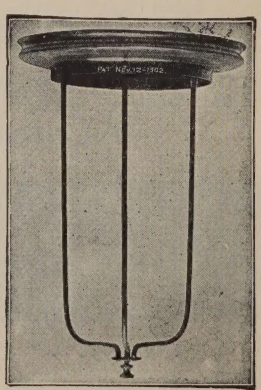
Code Word.	List No.	Mfr. No.	Class.	Holder.	No. Doz. in Bbl.	List Price, per Doz.
Zadezox	9963	3050	B	3¼	3	$17.00
Zadezoz	9964	3155	B	3¼	2	24.00
Zadezu	9965	3550	B	4	1	48.00



No. 9966.

SPECIAL HOLOPHANE BOWL.

				Diam. Under Flange.	Each.
Zadezub	9966	1215	A	12½	5.00

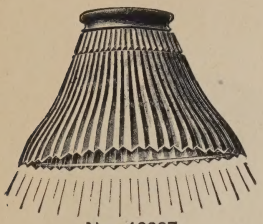


HOWE HOLDER.

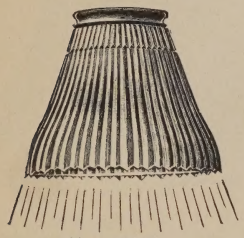
For Non-Flanged Spheres.

FRANKLIN SHADES.

DOUBLE REFRACTING.



No. 10887.



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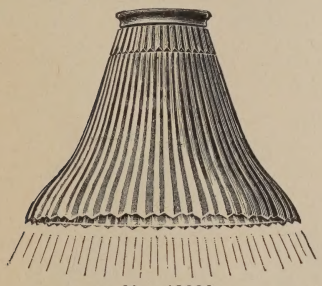

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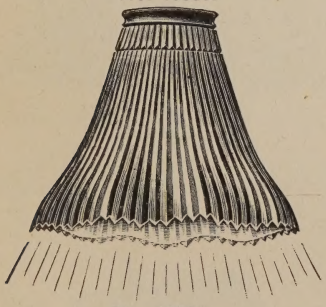

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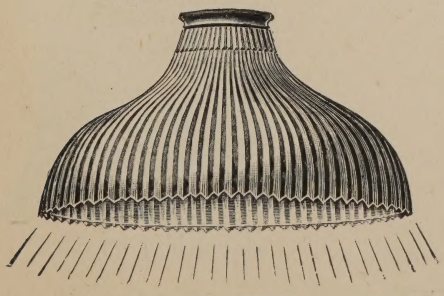
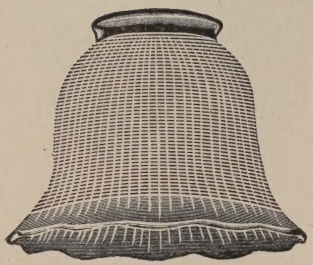


No. 10892.

Code Word.	List No.	Mfr. No.	Diameter, Inches.	Height, Inches.	Fitter, Inches.	List Price, per Doz.
Zabota	10887	184A	3⅝	2½	1⅝	$3.50
Zabotab	10888	184B	3¼	2⅝	1⅝	3.50
Zabotac	10889	185A	4½	3½	1⅝	4.00
Zabotad	10890	185B	4¼	3⅜	1⅝	4.00
Zabotaf	10891	185C	4¼	3½	1⅝	4.00
Zabotag	10892	186B	6	3¼	1⅝	4.50
Zabotah	10893	186C	6	3¼	1⅝	4.50
Zabotak	10894	187A	7	3¼	2¼	5.50
Zabotal	10895	187C	7	3¼	2¼	5.50

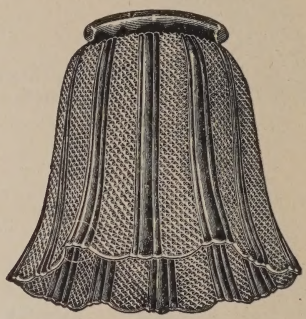
Special Holders, any style, 7.50 per gross.

GLASS SHADES.



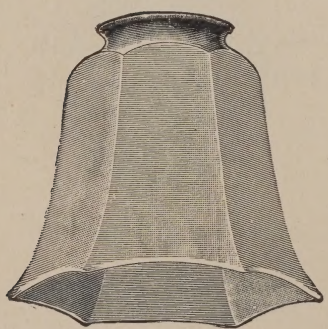
No. 8785.
Pressed.

Code Word.	List No.	Mfr. No.	List Price, per Doz.
Zadexiz	8785	719	$2.50



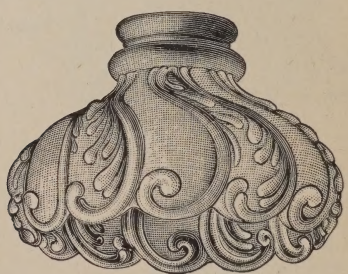
No. 8788.
Pressed.

Code Word.	List No.	Mfr. No.	List Price, per Doz.
Zadexoc	8788	133	3.00



No. 8786.
Frosted.

Zadexo	8786	49	5.40



No. 8789.
Frosted.

Zadexod	8789	5944	8.00

No. 8787.
Light Etched.

Zadexob	8787	3107½	3.50

No. 8790.
Acid Etched.

Zadexof	8790	0513	4.00

GLASS SHADES.

No. 8915.

Code Word.	List No.	Mfr. No.	List Price, per Doz.
Zadeyef	8915	1345.....	$7.50

No. 8918.

Code Word.	List No.	Mfr. No.	List Price, per Doz.
Zadeyek	8918	1358.....	$7.50

No. 8916.

Zadeyeg	8916	701 Pressed...	2.50

No. 8919.

Zadeyel	8919	3234½.....	3.50

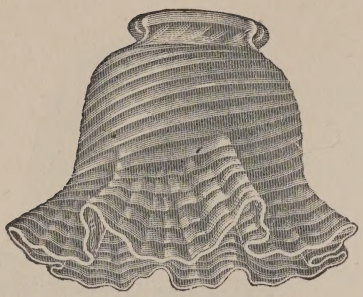
No. 8917.

Zadeyeh	8917	3373½.....	3.50

No. 8920.

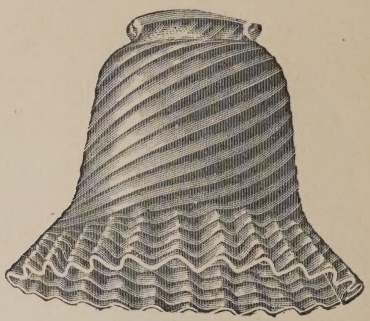
Zadeyem	8920	816½.....	2.25

GLASS SHADES.



No. 8791.
Opalescent, Blue and Ruby Tips.

Code Word.	List No.	Mfr. No.	List Price, per Doz.
Zadexog	8791	30	$10.00

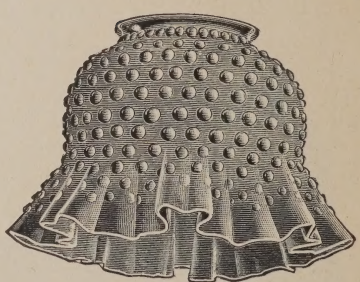


No. 8799.
Opalescent.

Code Word.	List No.	Mfr. No.	List Price, per Doz.
Zadexos	8799	33	5.50

No. 8792.
Opalescent.

Zadexoh	8792	27	5.00

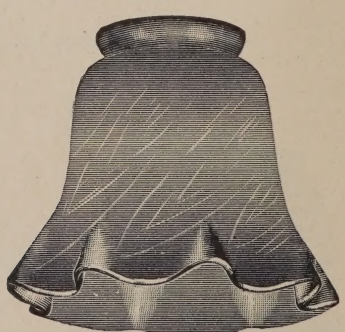


No. 8800.
Blue and Ruby Tips.

Zadexot	8800	23	10.00

No. 8793.

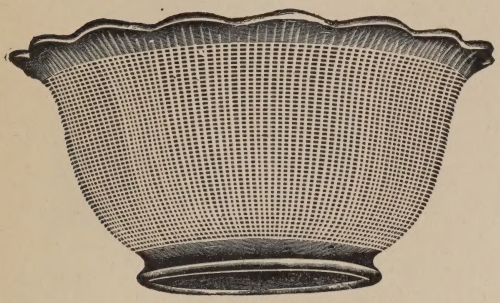
Zadexok	8793	515	Crystal etched... 6.00
Zadexol	8794	515	Light blue.....10.00
Zadexom	8795	515	Dark red.....10.00
Zadekon	8796	515	Yellow 10.00
Zadekop	8797	515	Ivory.....10.00
Zadexor	8798	515	Pink.....10.00



No. 8801.

Zadexov	8801	1965	Satin finish, ruby. 10.00
Zadexow	8802	1965	Satin finish, blue. 10.00
Zadexox	8803	1965	Satin finish, pink.. 10.00

SHADES.

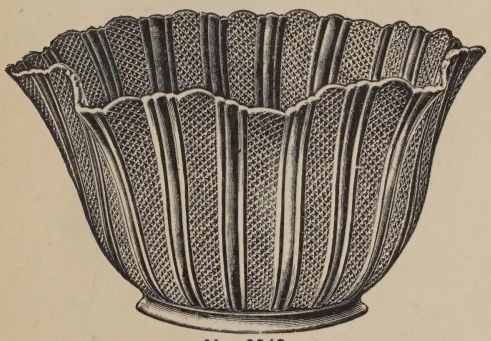


No. 9318.

Code Word.	List No.	Mfr. No.		List Price, per Doz.
Zadezat	9318	719G	Pressed.....	$4.00

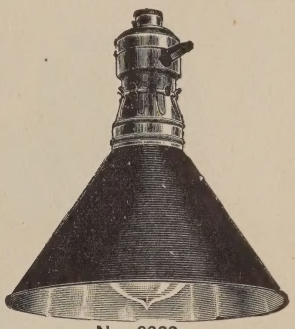
No. 9321.

Code Word.	List No.	Mfr. No.		List Price, per Doz.
Zadezax	9321	179C	Pressed.....	$4.00



No. 9319.

Zadezav	9319	133G	Pressed.....	4.00



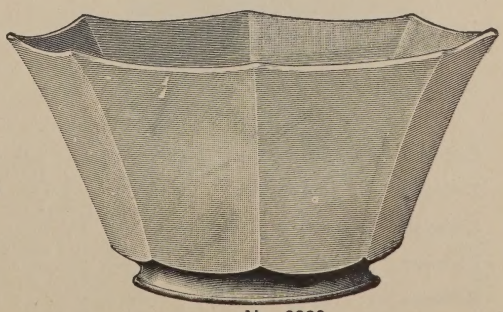
No. 9322.

				Each.
Zadezay	9322	26	Polished aluminum	.90

No. 9323.

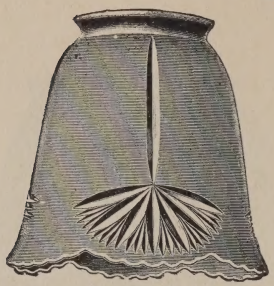
				Per Doz.
Zadezaz	9323	1255G	Silver etched.	9.00

Zadezaw	9320	49G	Frosted.....	6.00



No. 9320.

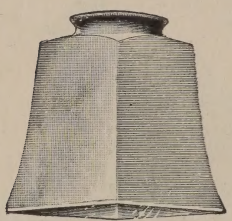
GLASS SHADES.



No. 9199.

No. 9203.

Code Word.	List No.	Mfr. No.		List Price, per Doz.
Zadezag	9199	174	Frosted	$4.00
Zadezal	9203	0657	Silver etched and cut	$15.00

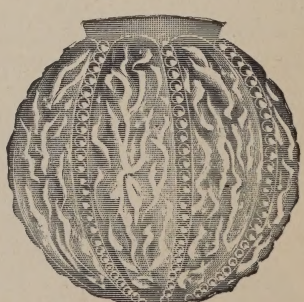


No. 9200.

No. 9204.

Zadezah	9200	50	Roughed inside	4.00
Zadezam	9204	6	Pressed	2.50

No. 9201.



No. 9205.

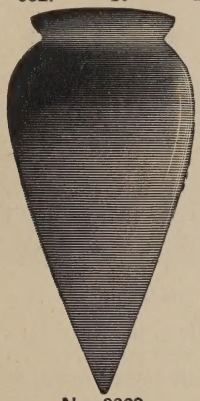
Zadezak	9201	2033	Silver etched cut glass, 7½ inches, 3¼ inch Holder.	22.50
Zadezan	9205	509	6 inches, 3¼ inch Holder. Crystal, Etched or Stripe.	10.50
Zadezap	9206	509	6 inches, 3¼ inch Holder. Light Blue, Yellow, Ivory, Dark Red, Pink.	15.00
Zadezar	9207	512	8 inches, 4 inch Holder. Crystal, Etched or Stripe.	16.50
Zadezas	9208	512	8 inches, 4 inch Holder. Light Blue, Yellow, Ivory, Dark Red.	21.00

BALLS AND STALACTITE SHADES.

No. 9327.

OPALESCENT.

Code Word.	List No	Size, Inches.	Holder, Inches.	List Price, per doz.
Zadeze	9324	6	3¼	$6.87
Zadezeb	9325	7	3¼	8.12
Zadezec	9326	8	3¼	10.00
Zadezed	9327	10	4	18.75



No. 9328.

ROUGHED INSIDE.

Zadezef	9328	8	3¼	11.25
Zadezeg	9329	9	3¼	12.50
Zadezeh	9330	10	3¼	15.00

No. 9331.

SILVER ETCHED.

Zadezek	9331	8	3¼	12.50

*Each. Plain red.

No. 9332.

OPALESCENT.

Code Word.	List No.	Size, Inches.	Holder, Inches.	List Price, per doz.
Zadezel	9332	6	3¼	$6.87
Zadezem	9333	7	3¼	8.12
Zadezen	9334	8	3¼	8.75
Zadezep	9335	10	3¼	11.87

No. 9336.

ROUGHED INSIDE.

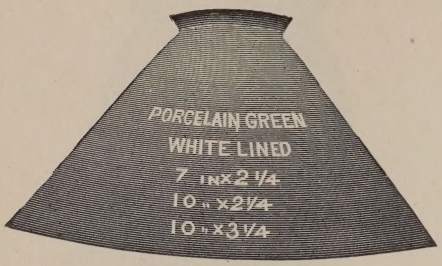
Zadezer	9336	6	3¼	7.50
Zadezes	9337	7	3¼	10.00
Zadezet	9338	8	3¼	12.00
Zadezev	9339	10	3¼	22.50
Zadezew	9340	6	3¼	*1.14

No. 9341.

SILVER ETCHED.

Zadezex	9341	6	3¼	12.50
Zadezey	9342	7	3¼	15.00
Zadezez	9343	8	3¼	17.50
Zadezi	9344	10	3¼	30.00

SHADES.

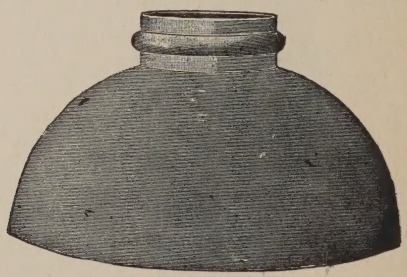


No. 8959.

No. 8961.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zadeyat	8959	710	Imported cone shade, 7 inch	$0.60
Zadeyav	8960	710	Imported cone shade, 10 inch	.90
Zadeyaw	8961	123	Imported desk shade, 8 inch, 3¼ inch holder	2.30

No. 8962.



No. 8965.

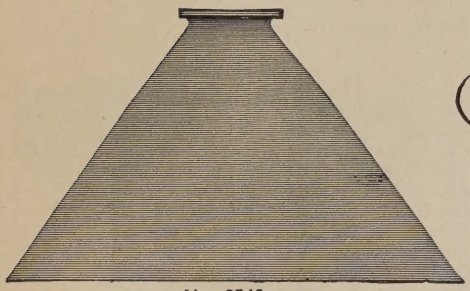
Zadeyax	8962	789	McCreery desk shade, 7 inch, 3¼ inch holder	1.60
Zadeyay	8963	789	McCreery desk shade, 8 inch, 3¼ inch holder	1.80
Zadeyaz	8964	789	McCreery desk shade, 9 inch, 4 inch holder	2.50
			Disk shades, .25 extra.	
Zadeye	8965	48	Ring top dome, 10 inch	.50

No. 8966.

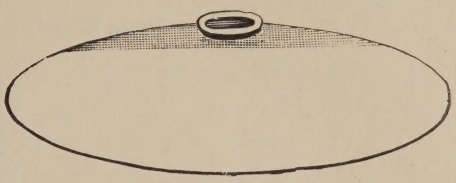
No. 8967.

Zadeyeb	8966	1344	Silver etched, 10 inch holder	3.50
Zadeyec	8967	051	Plain, or ribbed, green and white, 8 inch	1.50
Zadeyed	8968	051	Plain, or ribbed, green and white, 10 inch	1.80

SHADES.



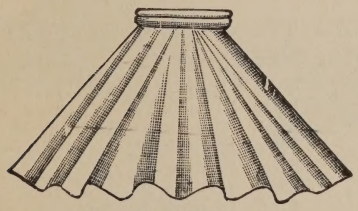
No. 9519.



No. 9529.

CONE PORCELAIN.

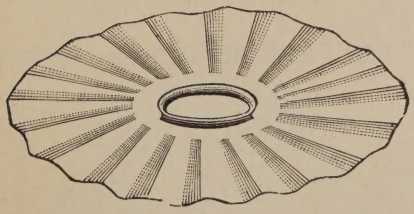
Code Word.	List No.	Size.	List Price, per Doz.
Zadezib	9519	8 inch	$3.00
Zadezic	9520	10 inch	3.25



No. 9521.

CONE CRIMPED PORCELAIN.

Zadezid	9521	6 inch	1.63
Zadezif	9522	7 inch	1.88
Zadezig	9523	8 inch	2.00
Zadezih	9524	10 inch	3.13



No. 9525.

FLAT CRIMPED PORCELAIN.

Zadezik	9525	6 inch	1.63
Zadezil	9526	7 inch	1.88
Zadezim	9527	8 inch	2.00
Zadezin	9528	10 inch	2.50

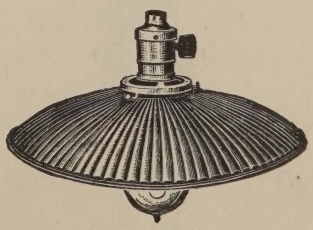
FLAT PORCELAIN.

Code Word.	List No.	Size.	List Price, per Doz.
Zadezip	9529	6 inch	$1.63
Zadezir	9530	7 inch	1.88
Zadezis	9531	8 inch	2.00
Zadezit	9532	10 inch	2.50
Zadeziv	9533	12 inch	4.38
Zadeziw	9534	14 inch	5.00
Zadezix	9535	16 inch	8.50
Zadeziy	9536	18 inch	11.87
Zadeziz	9537	20 inch	15.00
Zadezo	9538	22 inch	18.75
Zadezob	9539	24 inch	25.00

No. 9540.

PORCELAIN.

Zadezoc	9540	6 inch	1.63
Zadezod	9541	7 inch	1.88
Zadezof	9542	8 inch	2.00



No. 9543.

CRESCENT CROWN.

Zadezog	9543	.....	2.50

METAL SHADES AND REFLECTORS.

FLAT TIN REFLECTOR SHADES.

White Enamel Inside, Green Outside.

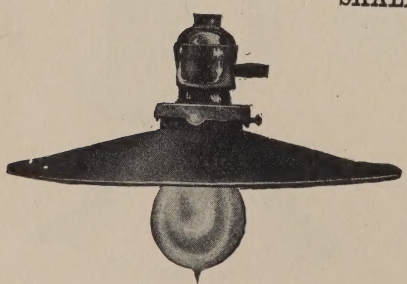
No. 8683.

Code Word.	List No.		List Price.
Corpuscle	8677	6 in. x 2¼ in.....	$1 75
Corral	8678	7 in. x 2¼ in.....	1 75
Correct	8679	8 in. x 2¼ in.....	1 75
Correlate	8680	10 in. x 2¼ in.....	2 25
Correspond	8681	10 in. x 3¼ in.....	2 25
Corridor	8682	12 in. x 2¼ in.....	3 00
Corrigible	8683	12 in. x 3¼ in.....	3 00
Corrode	8684	14 in. x 2¼ in.....	3 75
Corrosive	8685	14 in. x 3¼ in.....	3 75
Corrugate	8686	16 in. x 2¼ in.....	5 00
Corrupt	8687	16 in. x 3¼ in.....	5 00
Corselet	8688	18 in. x 2¼ in.....	6 00
Cortege	8689	18 in. x 3¼ in.....	6 00
Coruscate	8690	20 in. x 2¼ in.....	7 00
Cosmetic	8691	20 in. x 3¼ in.....	7 00
Cosmic	8692	22 in. x 2¼ in.....	8 50
Cosmos	8693	22 in. x 3¼ in.....	8 50
Cosset	8694	24 in. x 2¼ in.....	10 00
Cost	8695	24 in. x 3¼ in.....	10 00

We furnish shades for 2¼ in. holder when no size is specified.

SHALLOW CONE TIN REFLECTOR SHADES.

White Enamel Inside, Green Outside.

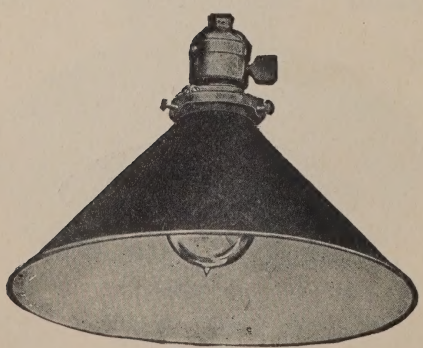


No. 8699.

Costume	8696	8 in. x 2¼ in.....	1 75
Cosy	8697	10 in. x 2¼ in.....	2 25
Cot	8698	10 in. x 3¼ in.....	2 25
Cote	8699	12 in. x 2¼ in.....	3 00
Coterie	8700	12 in. x 3¼ in.....	3 00
Cotillion	8701	14 in. x 2¼ in.....	3 75
Cottage	8702	14 in. x 3¼ in.....	3 75
Cotton	8703	16 in. x 2¼ in.....	5 00
Couch	8704	16 in. x 3¼ in.....	5 00
Cough	8705	18 in. x 2¼ in.....	6 00
Council	8706	18 in. x 3¼ in.....	6 00

We furnish shades for 2¼ in. holder when no size is specified.

DEEP CONE TIN REFLECTOR SHADES.



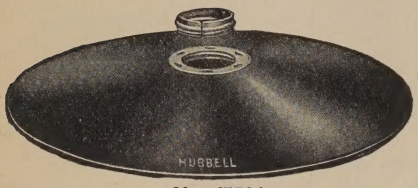
No. 8709.

Counsel	8707	8 in. for 2¼ holder..	2 25
Count	8708	10 in. for 2¼ holder..	3 00
Counter	8709	10 in. for 3¼ holder..	3 00
Counteract	8710	12 in. for 2¼ holder..	4 00
Country	8711	12 in. for 3¼ holder..	4 00
County	8712	14 in. for 2¼ holder..	6 00
Couple	8713	14 in. for 3¼ holder..	6 00

We furnish shades for 2¼ in. holder when no size is specified.

HUBBELL SHADES AND REFLECTORS.

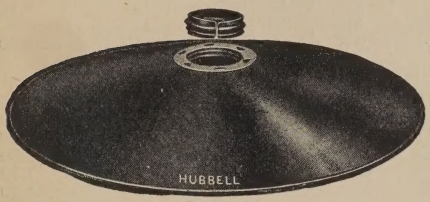
The Shades that Cannot Become Loose. Requires no Screws. Holds Lamp in Exact Center. Requires no Shade Holder. Attached or Detached in an Instant.



No. 45501.

FLAT TIN SHADES.

Code Word.	List No.	Mfr. No.		Std Pkg.	List Price, per Doz.
Zucuz	45499	5431	8 in.....	5 doz.	$2.50
Zuda	45500	5432	10 in.....	5 doz.	3.00
Zudab	45501	5433	12 in.....	5 doz.	4.40
Zudad	45502	5456	14 in.....	5 doz.	5.60
Zudaf	45503	5457	16 in.....	5 doz.	6.90
Zacofot	25009	5476	18 in.....	5 doz.	8.50



No. 45507.

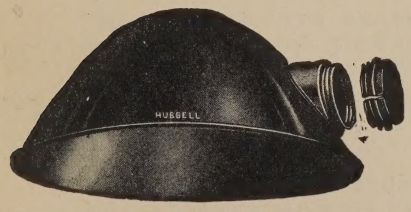
SHALLOW CONE TIN SHADES.

Zudah	4~505	5462	8 in.....	5 doz.	2.90
Zudak	45506	5463	10 in.....	5 doz.	3.35
Zudal	45507	5464	12 in.....	5 doz.	4.70
Zudam	45508	5465	14 in.....	5 doz.	6.00
Zudan	45509	5466	16 in.....	5 doz.	7.30

No. 45514.

HALF REFLECTORS.

Zudav	45514	5429	Half Tin Reflector, 5 doz.....	3.25
Zudaw	45515	5430	Half Aluminum Reflector, 5 doz.	5.50
Zacofov	25010	5532	Half Brass Reflector, 5 doz...	9.00



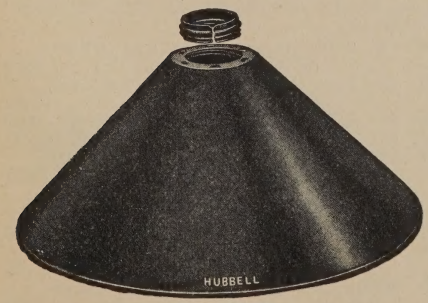
No. 45516.

PARABOLA REFLECTORS.

Zudax	45516	5640	Polished, 6½ in. 5 doz.....	9.00
Zudaz	45517	5641	Frosted, 6½ in. 5 doz.....	8.25
Zacofow	25011	5477	Polished, 5½ in. 5 doz.....	8.75
Zacofox	25012	5478	Frosted, 5½ in. 5 doz.....	8.00

DEEP CONE SHADE.

Zude	45518	5440	8 in.....	5 doz.	3.50
Zudeb	45519	5441	10 in.....	5 doz.	3.80
Zuded	45520	5442	12 in.....	5 doz.	5.60



No. 45520.

FLAT ALUMINUM SHADES.

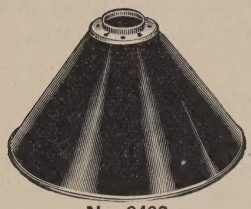
Zudag	45504	5434	8 in.....	1 doz.	.85
Zudap	45510	5435	10 in.....	1 doz.	.95
Zudar	45511	5436	12 in.....	1 doz.	1.20
Zudas	45512	5458	13 in.....	1 doz.	1.50
Zudat	45513	5459	16 in.....	1 doz.	1.90

DEEP CONE ALUMINUM SHADES.

Zacofoy	25013	5473	8 in.....	1 doz.	.85
Zacofoz	25014	5474	10 in.....	1 doz.	1.25
Zacofu	25015	5475	12 in.....	1 doz.	1.70

UTILITY SHADES.

CARDBOARD, CELLULOID PAPER, LINEN AND SILK.



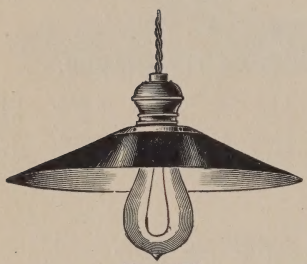
No. 9492.

GREEN AND WHITE CARDBOARD SHADES.

Code Word.	List No.	Mfr. No.	Size. Shape.	List Price, per Doz.
Zacutuv	9509	1	10-in. flat cone	$2.10
Zacutuw	9510	2	8-in. half cone	1.70
Zacutux	9511	3	10-in. half cone	1.80
Zacutuy	9512	4	12-in. half cone	2.25
Zacutuz	9513	5	8-in. deep cone	1.75
Zacuva	9515	6	10-in. deep cone	2.00

Same as above, with lower edge bound in brass.

Zacuvab	9488	1R	10-in. flat cone	2.90
Zacuvac	9489	2R	8-in. half cone	2.35
Zacuvad	9490	3R	10-in. half cone	2.60
Zacuvaf	9491	4R	12-in. half cone	3.25
Zacuvag	9492	5R	8-in. deep cone	2.40
Zacuvah	9493	6R	10-in. deep cone	2.80



No. 9479.

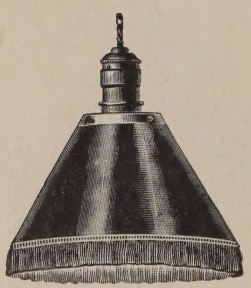
GREEN AND WHITE CELLULOID SHADES.

Zacuvak	9479	91	10-in. flat cone	7.75
Zacuval	9480	92	8-in. half cone	6.60
Zacuvam	9481	93	10-in. half cone	8.00
Zacuvan	9483	94	12-in. half cone	12.00
Zacuvap	9484	95	8-in. deep cone	7.20
Zacuvar	9485	96	10-in. deep cone	10.00

CELLULOID, TRANSLUCENT COLORS.

Light Green, Red, Pink, Yellow, Blue, White. No Lining.

Zacuvas	9486	42	8-in. half cone	4.00
Zacuvat	9487	43	10-in. half cone	4.60



No. 9502.

LINEN SHADES WITH SILK FRINGE.

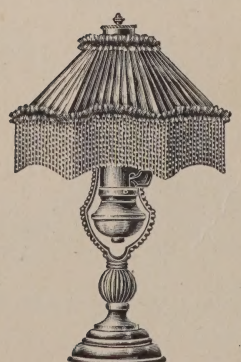
Dark Green, Light Green, Red, Pink, Yellow, Blue. Paper Lining.

Zacuvav	9499	38	7-in. deep cone	3.60
Zacuvaw	9500	32	8-in. half cone	4.00
Zacuvax	9501	33	10-in. half cone	5.00
Zacuvay	9502	35	8-in. deep cone	4.50

SILK SHADES, WITH BEAD FRINGE.

Dark Green, Light Green, Red, Pink, Blue, Yellow, Silver or Gold Fringe. Other colors at extra cost.

				Fringe.	
Zacuvaz	9505	108	7-in. deep cone	2-in.	18.00
Zacuve	9506	102	8-in. half cone	2-in.	22.00
Zacuveb	9507	103	10-in. half cone	3-in.	30.00
Zacuvec	9508	105	8-in. deep cone	2-in.	24.00



No. 9508.

SHADES FOR PORTABLES.

In various colors and styles. Celluloid or paper, either in Green and White, or assorted colors; also in linen with silk fringe, and in silk with bead fringe. Unless otherwise ordered these shades are furnished with "Reverse" Holder, fitting lamp tip.

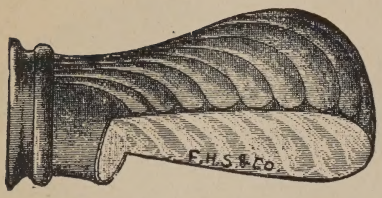
Zacuved	9494	8	7-in. paper, green and white, or assorted colors	1.70
Zacuvef	9495	38	7-in. linen, silk fringe, assorted colors	3.60
Zacuveg	9496	48	7-in. celluloid, assorted colors	3.60
Zacuveh	9497	98	7-in. celluloid, green and white	6.00
Zacuvek	9498	108	7-in. silk, bead fringe, assorted colors	18.00

SHADE ACCESSORIES.

Zacuvel	9516	Prong Attachment	1.20
Zacuvem	9517	Spun collars for 2¼-in. shade holder	.70
Zacuven	9518	Spun collars for 3¼-in. shade holders	1.00

List prices include holders in all cases.

SHADES.



No. 9038.
IMPORTED HALF GLASS SHADE.
(White Lined.)

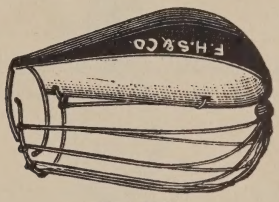
Code Word.	List No.	Mfr. No.	List Price, per Doz.
Zadeyic	9038	20	$9.00

No. 9043.
Oval, White Lined.

Code Word.	List No.	Mfr. No.	List Price, per Doz.
Zabeyik	9043	546	$8.00

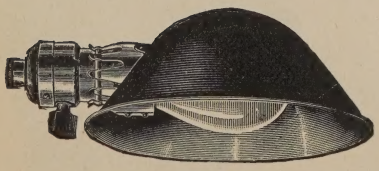
No. 9039.
Half Tin.

Zadeyid	9039	99	Tin band.	4.00
Zadeyif	9040	66	Ring.....	4.00
Zadeyig	9041	77	Aluminum	8.00



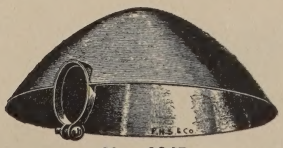
No. 9044.
Guarded, Half Tin.

Zadeyil	9044	66G	6.00



No. 9042.
PARABOLA.
(Polished Aluminum.)

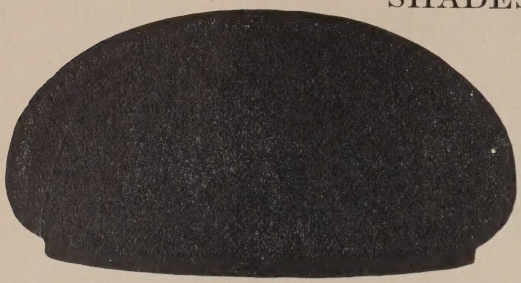
Zadeyih	9042	27	9.60



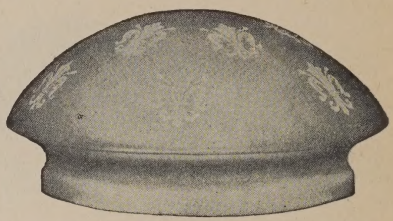
No. 9045.
PARABOLA.
(Polished Aluminum.)

Zadeyim	9045	61	8.00

SHADES.

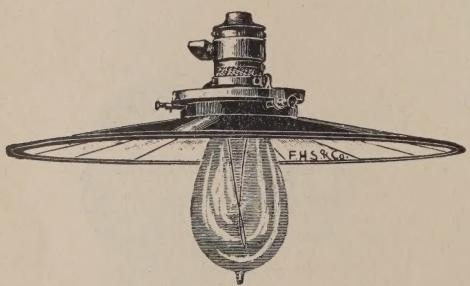


No. 8941.

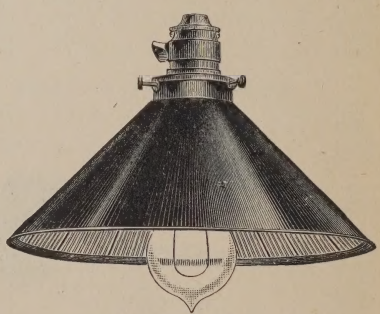


No. 8947.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zadexuw	8941	1225	Dome, 8-inch sand blast	$1.50
Zadexux	8942	1225	Dome, 10-inch sand blast	1.70
Zadexuy	8943	1225	Green and white lined, 8-inch	1.80
Zadexuz	8944	1225	Green and white lined, 10-inch	2.00
Zadeya	8945	1225	Red and white lined, 8-inch	2.50
Zadeyab	8946	1225	Red and white lined, 10-inch	3.00
Zadeyac	8947	1727	Dome, silver etched, 10-inch holder	4.00

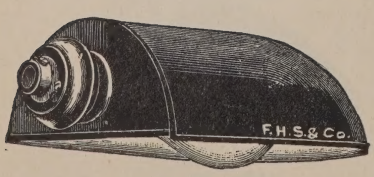


No. 8948.

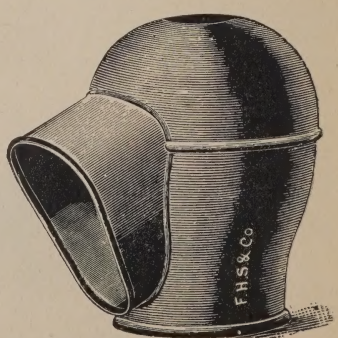


No. 8954.

Zadeyad	8948	Flat Mirror Reflector, 8-inch	.85
Zadeyaf	8949	Flat Mirror Reflector, 10-inch	.85
Zadeyag	8950	Flat Mirror Reflector, 12-inch	1.00
Zadeyah	8951	Flat Mirror Reflector, 14-inch	1.20
Zadeyak	8952	Flat Mirror Reflector, 16-inch	1.50
Zadeyal	8953	Flat Mirror Reflector, 18-inch	2.00
Zadeyam	8954	Cone Mirror Reflector, 8-inch	.90
Zadeyan	8955	Cone Mirror Reflector, 10-inch	1.00
Zadeyap	8956	Cone Mirror Reflector, 12-inch	1.20



No. 8957.



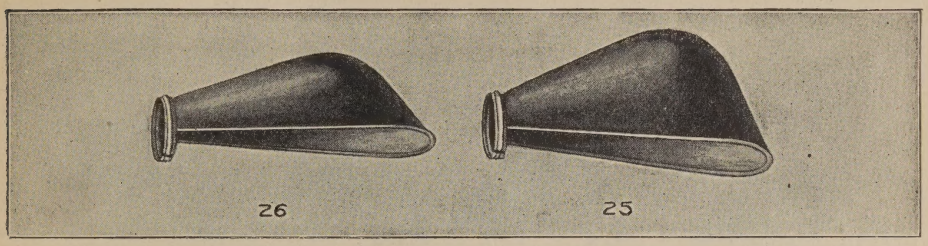
No. 8958.

Zadeyar	8957	6574 Billiard Shade, 2¼-inch holder, per dozen	.9.00
Zadeyas	8958	Pulpit Hood, 3¼-inch holder, each	2.50

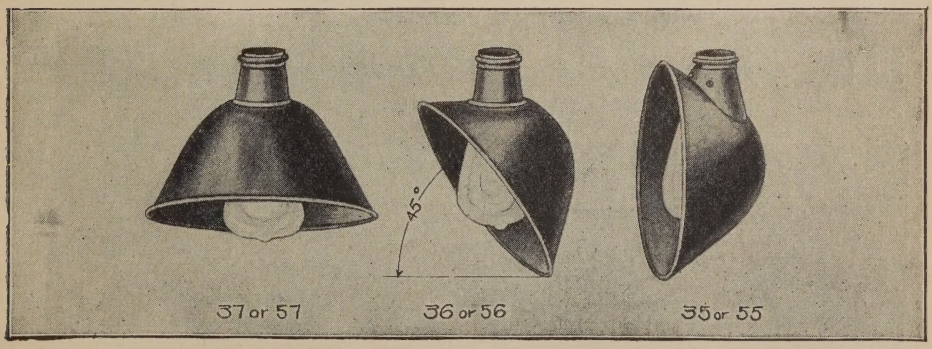
D'OLIER ROTATING SHADES.

STANDARD FINISH:—GREEN AND BLACK ENAMEL.

SPECIAL FINISHES:—DIPPED BRASS, OXIDIZED COPPER, GUN METAL BLACK, BRUSH BRASS, NICKEL, POLISHED BRASS.



Code Word.	List No.		List Price. per Dozen.
Zaboluf	216	Black or green enamel	$2.00
Zabolug	217	Dipped brass	2.50
Zaboluh	218	Brush brass	3.00
Zaboluk	219	Oxidized copper	3.00
Zabolul	220	Nickel	3.00
Zabolum	221	Gun metal black	3.00
Zabolun	222	Polished brass	3.00



SIZES.

Nos. 35, 36 and 37, 6 inches diameter, 2½ inches deep.

Nos. 55, 56 and 57, 6½ inches diameter, 3 inches deep.

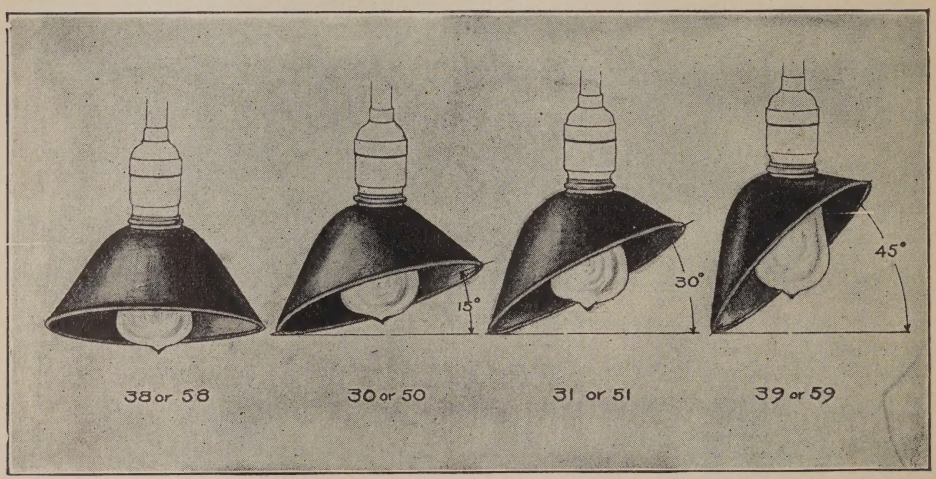
		Mfr. No.	Enameled Steel.	Dipped Brass.	Special Finishes.	Enameled Aluminum.
Zabolup	223	35—36—37	$3.00	$3.60	$4.50	$4.20
Zabolur	224	55—56—57	4.20	4.80	6.00	5.40

Add 25 per cent for Special Finishes.

D'OLIER ROTATING SHADES.

STANDARD FINISH:—GREEN AND BLACK ENAMEL.

SPECIAL FINISHES:—DIPPED BRASS, OXIDIZED COPPER, GUN METAL BLACK, BRUSH BRASS, NICKEL, POLISHED BRASS.



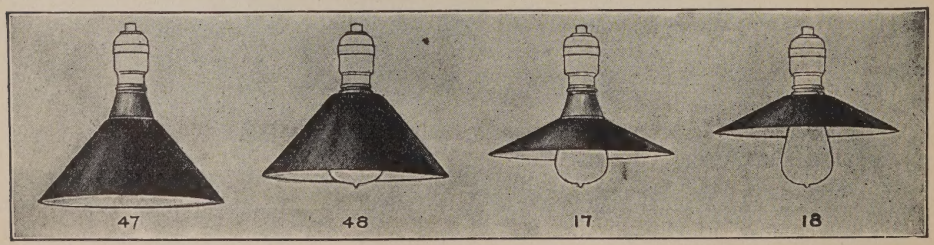
With or without Wire Guards.

Wire Guards $1.80 per dozen extra.

SIZES.

Nos. 30, 31, 38 and 39, 6 inches diameter, 2½ inches deep.
Nos. 50, 51, 58 and 59, 6½ inches diameter, 3 inches deep.

Code Word.	List No.	Mfr. No.	Enameled Steel.	Dipped Brass.	Special Finishes.
Zaboloy	225	30—31—38—39	$2.40	$3.00	$3.75
Zaboloz	226	50—51—58—59	3.60	4.20	5.25

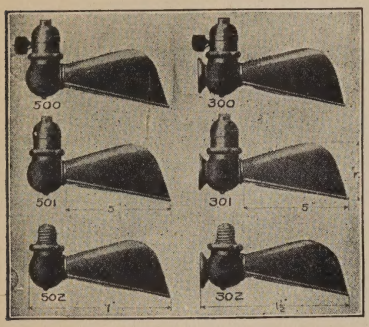


Nos. 48 and 18 have a short holder attached. Nos. 47 and 17 have a projected holder attached, which allows the shade to conceal part or all of the lamp.

Zabolu	227	17.....	2.50	3.10	3.88
Zabolub	228	18.....	1.50	2.10	2.63
Zaboluc	229	47.....	3.00	3.60	4.50
Zabolud	230	48.....	2.00	2.60	3.25

Add 25 per cent for Special Finishes.

D'OLIER UNIVERSAL SOCKETS AND SHADES.

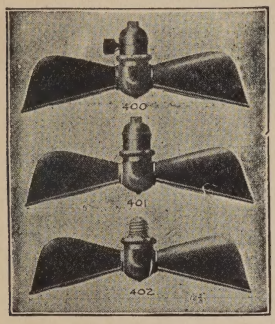


STANDARD FINISHES.

Black enamel body, black enamel shade.
Black enamel body, green enamel shade.
Dipped brass body, black enamel shade.
Dipped brass body, green enamel shade.
Dipped brass body, dipped brass shade.

SPECIAL FINISHES.

Dull brass, body and shade.
Polished brass, body and shade.
Oxidized copper, body and shade.
Nickel, body and shade.
Gun metal black, body and shade.

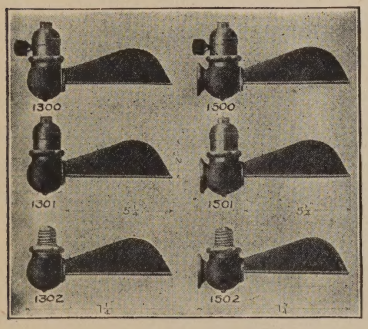


STANDARD FINISHES.

BALANCED OR UNBALANCED.

(Weight Inside.)

Code Word.	List No.		List Price, Each.
Zabolus	500	Key socket.....	$1.30
Zabolut	501	Keyless socket.....	1.20
Zaboluv	502	Attachment plug.....	1.00



BALANCED.

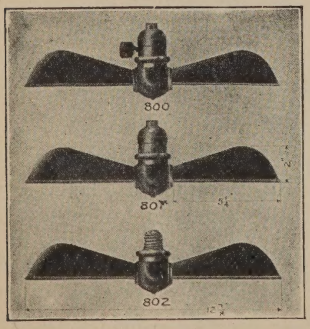
(Weight Outside of Portable Base.)

Zaboluw	300	Key socket.....	1.30
Zabolux	301	Keyless socket.....	1.20
Zaboluy	302	Attachment plug.....	1.00
Zaboluz	400	Key socket.....	1.50
Zaboma	401	Keyless socket.....	1.40
Zabomab	402	Attachment plug.....	1.20

BALANCED OR UNBALANCED.

(Weight Inside.)

Zabomac	1300	Key socket.....	1.30
Zabomad	1301	Keyless socket.....	1.20
Zabomaf	1302	Attachment plug.....	1.00



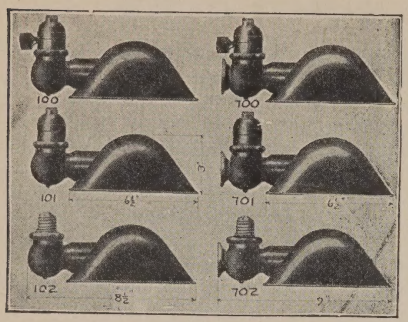
BALANCED.

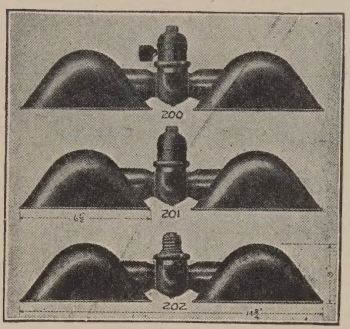
(Weight Outside for Portable Base.)

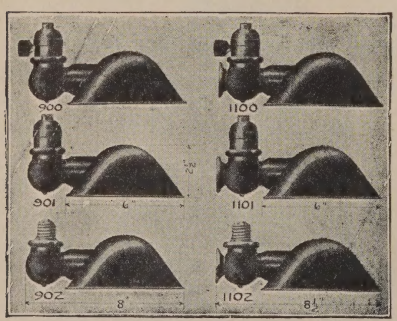
Zabomag	1500	Key socket.....	1.30
Zabomah	1501	Keyless socket.....	1.20
Zabomak	1502	Attachment plug.....	1.00
Zabomal	800	Key socket.....	1.50
Zabomam	801	Keyless socket.....	1.40
Zaboman	802	Attachment plug.....	1.20

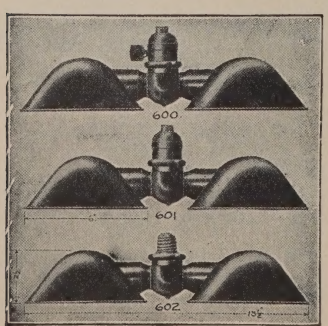
ADD 10 PER CENT. FOR SPECIAL FINISHES.

D'OLIER UNIVERSAL SOCKETS AND SHADES.









STANDARD FINISHES.

Black enamel body, black enamel shade.

Black enamel body, green enamel shade.

Dipped brass body, black enamel shade.

Dipped brass body, green enamel shade.

Dipped brass body, dipped brass shade.

SPECIAL FINISHES.

Dull brass, body and shade.

Polished brass, body and shade.

Oxidized copper, body and shade.

Nickel, body and shade.

Gun metal black, body and shade.

STANDARD FINISHES.

BALANCED ENAMEL SHADES ONLY.

Code Word.	List No.		List Price, Each.
Zabomap	100	Key Socket	$2.00
Zabomar	101	Keyless Socket	1.90
Zabomas	102	Attachment Plug	1.70
Zabomat	700	Key Socket	2.00
Zabomav	701	Keyless Socket	1.90
Zabomaw	702	Attachment Plug	1.70
Zabomax	200	Key Socket	2.30
Zabomay	201	Keyless Socket	2.20
Zabomaz	202	Attachment Plug	2.00

BALANCED OR UNBALANCED.

(Weight inside.)

Zabome	203	Key Socket	1.90
Zabomeb	204	Keyless Socket	1.80
Zabomec	205	Attachment Plug	1.60

BALANCED OUTSIDE.

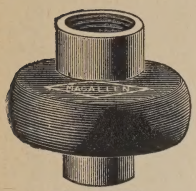
Zabomed	206	Key Socket	1.90
Zabomef	207	Keyless Socket	1.80
Zabomeg	208	Attachment Plug	1.60
Zabomeh	600	Key Socket	2.20
Zabomek	601	Keyless Socket	2.10
Zabomel	602	Attachment Plug	1.90

Add 10 per cent for special finishes.

MACALLEN INSULATING JOINTS.

SOLID MICA INSULATING JOINTS.

CHANDELIER INSULATING JOINTS FOR COMBINATION FIXTURES.



No. 18379.

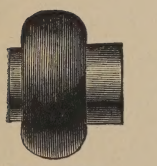
In Composition Brass—Combination.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacaxo	16853	1000	¼x ¼	$0.50
Zacaxob	18738	1001	⅜x ⅛	.50
Zacaxoc	18739	1002	⅜x ¼	.50
Zacaxod	18740	1003	⅜x ⅜	.50
Zacaxof	18741	1004	½x ⅛	.66⅔
Zacaxog	18742	1005	½x ¼	.66⅔
Zacaxoh	18743	1006	½x ⅜	.66⅔
Zacaxok	18744	1007	½x ½	.66⅔
Zacaxol	18745	1010	¾x ⅜	1.00
Zacaxom	18746	1011	¾x ½	1.00
Zacaxon	18747	1012	¾x ¾	1.00
Zacaxop	19748	1013	1 x ½	1.60
Zacaxor	18749	1014	1 x ¾	1.60
Zacaxos	18750	1015	1 x1	1.60

In Malleable Iron—Combination.

Zacaxot	18751	1041	⅜x ⅛	.45
Zacaxov	18752	1042	⅜x ¼	.45
Zacaxow	18753	1043	⅜x ⅜	.45
Zacaxox	18754	1044	½x ⅛	.60
Zacaxoy	18755	1045	½x ¼	.60
Zacaxoz	18756	1046	½x ⅜	.60
Zacaxu	18757	1047	½x ½	.60
Zacaxub	18758	1048	¾x ⅜	.90
Zacaxuc	18759	1049	¾x ½	.90
Zacaxud	18760	1050	¾x ¾	.90
Zacaxuf	18761	1051	1 x ½	1.45
Zacaxug	18762	1052	1 x ¾	1.45
Zacaxuh	18763	1053	1 x1	1.45

BRACKET INSULATING JOINTS FOR COMBINATION FIXTURES.


No. 18766.

In Composition Brass—Combination.

Zacaxuk	18764	1261	⅛x ⅛	.40
Zacaxul	18765	1262	¼x ⅛	.40
Zacaxum	18766	1263	¼x ¼	.40
Zacaxun	18767	1121	⅜x ⅛	.40
Zacaxup	18768	1122	⅜x ¼	.40
Zacaxur	18769	1123	⅜x ⅜	.40
Zacaxus	18770	1124	½x ⅛	.54
Zacaxut	18771	1125	½x ¼	.54
Zacaxuv	18772	1126	½x ⅜	.54
Zacaxuw	18773	1127	½x ½	.54

In Malleable Iron—Combination.

Zacaxux	18774	1141	⅜x ⅛	.36
Zacaxuy	18775	1142	⅜x ¼	.36
Zacaxuz	18776	1143	⅜x ⅜	.36
Zacaya	18777	1144	½x ⅛	.50
Zacayab	18778	1145	½x ¼	.50
Zacayac	18779	1146	½x ⅜	.50
Zacayad	18780	1147	½x ½	.50

EXTRA HEAVY COMBINATION JOINTS.

FOR FIXTURES LARGER THAN ONE INCH.

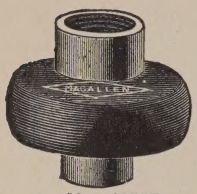
In Composition Brass Only.

Zacayaf	18781	1251	½x ½	1.25
Zacayag	18782	1252	¾x ½	1.75
Zacayah	18783	1253	¾x ¾	2.00
Zacayak	18784	1254	1 x ¾	2.50
Zacayal	18785	1255	1 x1	2.75
Zacayam	18786	1256	1¼x1	3.50
Zacayan	18787	1257	1¼x1¼	4.00
Zacayap	18788	1258	1½x1½	6.00
Zacayar	18789	1259	2 x2	10.00

Larger sizes to order. Special prices

MACALLEN INSULATING JOINTS.

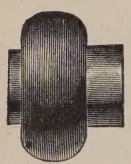
BLANK INSULATING JOINTS FOR EXTERNALLY WIRED ELECTRIC CHANDELIER FIXTURES. INSULATING JOINTS. Composition Brass.



No. 18557.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacaxa	18556	1021	⅜ x ⅛	$ .50
Zacaxab	18557	1022	⅜ x ¼	.50
Zacaxac	18558	1023	⅜ x ⅜	.50
Zacaxad	18559	1024	½ x ⅛	.66⅔
Zacaxaf	18560	1025	½ x ¼	.66⅔
Zacaxag	18561	1026	½ x ⅜	.66⅔
Zacaxah	18562	1027	½ x ½	.66⅔
Zacaxak	18563	1030	¾ x ⅜	1.00
Zacaxal	18564	1031	¾ x ½	1.00
Zacaxam	18565	1032	¾ x ¾	1.00
Zacaxan	18566	1033	1 x ½	1.60
Zacaxap	18567	1034	1 x ¾	1.60
Zacaxar	18568	1035	1 x1	1.60
		Malleable Iron.		
Zacaxas	18569	1061	⅜ x ⅛	.45
Zacaxat	18570	1062	⅜ x ¼	.45
Zacaxav	18571	1063	⅜ x ⅜	.45
Zacaxaw	18572	1064	½ x ⅛	.60
Zacaxax	18573	1065	½ x ¼	.60
Zacaxay	18574	1066	½ x ⅜	.60
Zacaxaz	18575	1067	½ x ½	.60
Zacaxe	18576	1068	¾ x ⅜	.90
Zacaxeb	18577	1069	¾ x ½	.90
Zacaxec	18578	1070	¾ x ¾	.90
Zacaxed	18579	1071	1 x ½	1.45
Zacaxef	18580	1072	1 x ¾	1.45
Zacaxeg	18581	1073	1 x1	1.45

BLANK INSULATING JOINTS FOR EXTERNALLY WIRED ELECTRIC BRACKET FIXTURES. In Composition Brass.

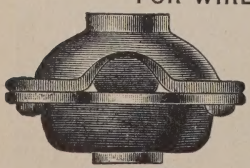

No. 18584.

Zacaxeh	18582	1281	⅛ x ⅛	.40
Zacaxek	18583	1282	¼ x ⅛	.40
Zacaxel	18584	1283	¼ x ¼	.40
Zacaxem	18585	1131	⅜ x ⅛	.40
Zacaxen	18586	1132	⅜ x ¼	.40
Zacaxep	18587	1133	⅜ x ⅜	.40
Zacaxer	18588	1134	½ x ⅛	.54
Zacaxes	18589	1135	½ x ¼	.54
Zacaxet	18590	1136	½ x ⅜	.54
Zacaxev	18591	1137	½ x ½	.54
		In Malleable Iron—Blank.		
Zacaxew	18592	1151	⅜ x ⅛	.36
Zacaxex	18593	1152	⅜ x ¼	.36
Zacaxey	18594	1153	⅜ x ⅜	.36
Zacaxez	18595	1154	½ x ⅛	.50
Zacaxi	18596	1155	½ x ¼	.50
Zacaxib	18597	1156	½ x ⅜	.50
Zacaxic	18598	1157	½ x ½	.50

EXTRA HEAVY BLANK JOINTS. In Composition Brass Only.

Zacaxid	18599	1271	½ x ½	1.25
Zacaxif	18606	1272	¾ x ½	1.75
Zacaxig	18607	1273	¾ x ¾	2.00
Zacaxih	18609	1274	1 x ¾	2.50
Zacaxik	18636	1275	1 x1	2.75
Zacaxil	18637	1276	1¼ x1	3.50
Zacaxim	18638	1277	1¼ x1¼	4.00
Zacaxin	18639	1278	1½ x1½	6.00
Zacaxip	18645	1279	2 x2	10.00

SEPARABLE ELECTROLIER TRIPOD JOINT. FOR CONDUIT, WITH PASSAGE FOR WIRES THROUGH INSULATION. Malleable Iron Only.


No. 18657.

Zacaxir	18656	1351	⅜ x ⅛	.55
Zacaxis	18657	1352	⅜ x ¼	.55
Zacaxit	18658	1353	⅜ x ⅜	.60
Zacaxiv	18659	1354	½ x ⅛	.65
Zacaxiw	18685	1355	½ x ¼	.65
Zacaxix	18686	1356	½ x ⅜	.70
Zacaxiy	16854	1357	½ x ½	.75
Zacaxiz	16855	1359	¾ x ½	.80

MACALLEN INSULATING JOINTS.

MALE AND FEMALE THREADED JOINTS FOR COMBINATION FIXTURES.

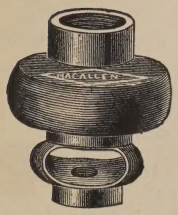
In Composition Brass.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacayas	18687	1264	⅜ x ⅜	$0.50
Zacayat	18688	1265	½ x ½	.66⅔

In Malleable Iron.

Zacayav	18639	1266	⅜ x ⅜	.45
Zacayaw	18690	1267	½ x ½	.60

ELECTROLIER OR SEPARABLE JOINTS.



No. 18693.

In Composition Brass.

Zacayax	18691	1201	⅜ x ⅛	.60
Zacayay	18692	1202	⅜ x ¼	.60
Zacayaz	18693	1203	⅜ x ⅜	.60
Zacaye	18694	1204	½ x ⅛	.80
Zacayeb	18695	1205	½ x ¼	.80
Zacayec	18696	1206	½ x ⅜	.80
Zacayed	18697	1207	½ x ½	.80
Zacayef	18698	1209	¾ x ⅜	1.20
Zacayeg	18699	1210	¾ x ½	1.20
Zacayeh	18700	1211	¾ x ¾	1.20
Zacayek	18701	1214	1 x ¾	2.00
Zacayel	18702	1215	1 x1	2.00

Larger sizes to order.

Bracket Sizes.

Zacayem	18703	1269	¼ x ⅛	.50
Zacayen	18704	1270	¼ x ¼	.50
Zacayep	18705	1231	⅜ x ⅛	.50
Zacayer	18706	1232	⅜ x ¼	.50
Zacayes	18707	1233	⅜ x ⅜	.50
Zacayet	18708	1234	½ x ⅛	.60
Zacayev	18709	1235	½ x ¼	.60
Zacayew	18710	1236	½ x ⅜	.60

In Malleable Iron.

Zacayex	18711	1221	⅜ x ⅛	.50
Zacayey	18712	1222	⅜ x ¼	.50
Zacayez	18713	1223	⅜ x ⅜	.50
Zacayi	18714	1224	½ x ⅛	.66⅔
Zacayib	18715	1225	½ x ¼	.66⅔
Zacayic	18716	1226	½ x ⅜	.66⅔
Zacayid	18717	1227	½ x ½	.66⅔
Zacayif	18718	1228	¾ x ⅜	1.00
Zacayig	18719	1229	¾ x ½	1.00
Zacayih	18720	1230	¾ x ¾	1.00
Zacayik	18721	1249	1 x ¾	1.70
Zacayil	18722	1250	1 x1	1.70

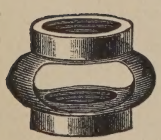
Bracket Sizes.

Zacayim	18723	1241	⅜ x ⅛	.45
Zacayin	18724	1242	⅜ x ¼	.45
Zacayip	18725	1243	⅜ x ⅜	.45
Zacayir	16850	1244	½ x ⅛	.55
Zacayis	16851	1245	½ x ¼	.55
Zacayit	16852	1246	½ x ⅜	.55

HICKEYS.

BOTH ENDS TAPPED TO STANDARD IRON PIPE SIZES.

Malleable Iron.

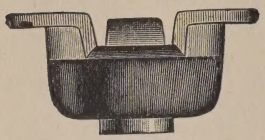

No. 18730.

Zacayiv	18726	1450	⅛ x ⅛	.07½
Zacayiw	18727	1451	¼ x ⅛	.07½
Zacayix	18728	1452	¼ x ¼	.07½
Zacayiy	18729	1453	⅜ x ⅛	.10
Zacayiz	18730	1454	⅜ x ¼	.10
Zacayo	18731	1455	⅜ x ⅜	.10
Zacayob	18732	1461	½ x ⅛	.12½
Zacayoc	18733	1462	½ x ¼	.12½
Zacayod	18734	1463	½ x ⅜	.12½
Zacayof	18735	1456	½ x ½	.12½
Zacayog	18736	1457	¾ x ¾	.17½
Zacayoh	18737	1458	1 x1	.25

Furnished in Composition Brass to order. The above will not fit Insulating Joints, the nipples of which are tapped with special straight threads. Hickeys for joints in either Malleable Iron or Composition Brass on application.

MACALLEN INSULATING JOINTS.

INSULATED CROWFOOT.



No. 18805.

In Malleable Iron Only.

Code Word.	List No.	Mfr. No.	Size.	List Price, Each.
Zacayok	18804	1401	⅛	$0.45
Zacayol	18805	1402	¼	.45
Zacayom	18806	1403	⅜	.45
Zacayon	18807	1404	½	.60
Zacayop	16856	1405	¾	.90

OUTLET BOX JOINT WITHOUT HICKEY.

No. 18813.

Distance between centers of screw holes, 1½ inches.

In Malleable Iron.

Zacayor	18812	1336	⅛	.30
Zacayos	18813	1337	¼	.30
Zacayot	18814	1338	⅜	.30

Furnished to order in Composition Brass.

MACALLEN CANOPY INSULATORS.

IN STANDARD BROWN COMPOUND.

Zacedoh	17522	B. 9	2⅛ and 2¼	.10
Zacedok	17523	B. 10	2⅜ and 2½	.10½
Zacedol	17524	B. 11	2⅝ and 2¾	.11
Zacedom	17525	B. 12	2⅞ and 3	.11½
Zacedon	17526	B. 13	3⅛ and 3¼	.12
Zacedop	17527	B. 14	3⅜ and 3½	.12½
Zacedor	17528	B. 15	3⅝ and 3¾	.13
Zacedos	17529	B. 16	3⅞ and 4	.14
Zacedot	17530	B. 17	4⅛ and 4¼	.15
Zacedov	17531	B. 18	4⅜ and 4½	.16
Zacedow	17532	B. 19	4⅝ and 4¾	.17
Zacedox	17533	B. 20	4⅞ and 5	.18
Zacedoy	17534	B. 21	5⅛ and 5¼	.20
Zacedoz	17535	B. 22	5⅜ and 5½	.22
Zacedu	17536	B. 23	5⅝ and 5¾	.24
Zacedub	17537	B. 24	5⅞ and 6	.26
Zaceduc	17538	B. 25	6⅛ and 6¼	.28
Zacedud	17539	B. 26	6⅜ and 6½	.30
Zaceduf	17540	B. 27	6⅝ and 6¾	.33
Zacedug	17541	B. 28	6⅞ and 7	.36
Zaceduh	17542	B. 29	7⅛ and 7¼	.39
Zaceduk	17543	B. 30	7⅜ and 7½	.42
Zacedul	17544	B. 31	7⅝ and 7¾	.45
Zacedum	17594	B. 32	7⅞ and 8	.48
Zacedun	17595	B. 33	8⅛ and 8¼	.51
Zacedup	17596	B. 34	8⅜ and 8½	.54
Zacedur	17597	B. 35	8⅝ and 8¾	.57
Zacedus	17598	B. 36	8⅞ and 9	.60
Zacedut	17599	B. 37	9⅛ and 9¼	.64
Zaceduv	17600	B. 38	9⅜ and 9½	.68
Zaceduw	17601	B. 39	9⅝ and 9¾	.72
Zacedux	17602	B. 40	9⅞ and 10	.76
Zaceduy	17603	B. 41	10⅛ and 10¼	.80
Zaceduz	17604	B. 42	10⅜ and 10½	.84
Zacefa	17605	B. 43	10⅝ and 10¾	.88
Zacefab	17606	B. 44	10⅞ and 11	.92
Zacefac	17607	B. 45	11⅛ and 11¼	.96
Zacefad	17608	B. 46	11⅜ and 11½	1.00
Zacefaf	17609	B. 47	11⅝ and 11¾	1.05
Zacefag	17610	B. 48	11⅞ and 12	1.10
Zacefah	17611	B. 49	12⅛ and 12¼	1.15
Zacefak	17612	B. 50	12⅜ and 12½	1.20
Zacefal	17613	B. 51	12⅝ and 12¾	1.25
Zacefam	17614	B. 52	12⅞ and 13	1.30
Zacefan	17615	B. 53	13⅛ and 13¼	1.35
Zacefap	17616	B. 54	13⅜ and 13½	1.40
Zacefar	17617	B. 55	13⅝ and 13¾	1.45
Zacefas	17618	B. 56	13⅞ and 14	1.50
Zacefat	17619	B. 57	14⅛ and 14¼	1.55
Zacefav	17620	B. 58	14⅜ and 14½	1.60
Zacefaw	17621	B. 59	14⅝ and 14¾	1.65
Zacefax	17622	B. 60	14⅞ and 15	1.70

Prices on White Compound Canopy Insulators in above sizes on application.
Prices on Square and Hexagonal Canopy Insulators, and old style, on application.

No. 14572.

WEATHERPROOF GLOBES.

Code Word.	List No.		List Price, Each. For 16 C. P. Lamps.	For 32 C. P. Lamps.
Cedillas	14572	Crystal, with cap	$1.00	$1.88
Ceilo	14573	Crystal, globe only	.50	.88
Celebrates	14574	Blue, with cap	1.25	2.50
Celebritys	14575	Blue, globe only	.75	1.50
Celestialy	14576	Green, with cap	1.25	2.50
Celibacys	14577	Green, globe only	.75	1.50
Cellon	14578	Ruby, with cap	1.88	3.13
Cellars	14579	Ruby, globe only	1.38	2.13
Cellularly	14580	Cap only for above	.50	1.00

No. 14581.

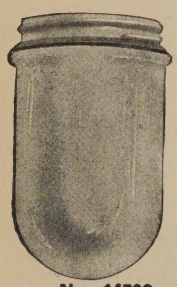
WEATHERPROOF, FOR 16 CANDLE-POWER LAMP.

Celluloids	14581	Crystal, with cap	1.00
Cements	14582	Crystal, globe only	.50
Cemeterys	14583	Blue, with cap	1.25
Censed	14584	Blue, globe only	.75
Censers	14585	Green, with cap	1.25
Censored	14586	Green, globe only	.75
Censoriousy	14587	Ruby, with cap	1.88
Cents	14588	Ruby, globe only	1.38
Centenarys	14589	Cap only for above	.50

NEWGARD WATERPROOF RECEPTACLES AND GLOBES.

TYPE A.

This is the Pendant type and hangs suspended by its conducting wires. Unless otherwise specified 8-inch wires are shipped.



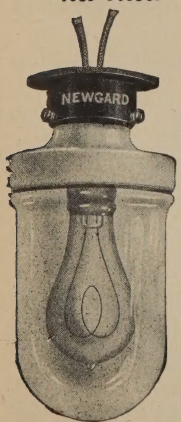
No. 14590.

			List Price. Per Dozen, Full Cases.	Broken Cases.
Centennials	14590	Edison base	$12.00	$15.00
Centers	14591	T.-H. base	12.00	15.00
Centigrades	14592	Globes only	5.00	6.00
Centrally	14593	Porcelain caps only	9.00	10.00

TYPE B.

This is the Bracket type. Cover is threaded to screw on regular ⅜ inch iron gas pipe.

Centurions	14594	Edison base	15.00	18.00
Centurys	14595	T.-H. base	15.00	18.00
Cered	14596	Globes only	5.00	6.00
Cereals	14597	Porcelain caps only	9.00	10.00



No. 14598.

TYPE C.

This is the Flange type. Cover is flanged and can be screwed to wall, ceiling or other support.

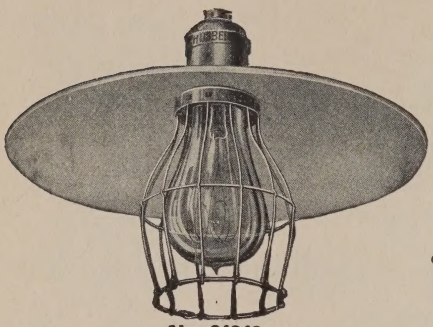
Cerebellums	14598	Edison base	15.00	18.00
Cerebrals	14599	T.-H. base	15.00	18.00
Cerebrums	14600	Globes only	5.00	6.00
Ceremonialy	14601	Porcelain caps only	9.00	10.00

NEWGARD WIRE GUARD.

Fits tightly over globe.

Extradites	14602	Per dozen	4.00

WIRE LAMP GUARDS.



No. 24842.

HUBBELL LAMP GUARDS.

For Use with Hubbell Shades.

This Guard is designed to be used in connection with our shades, as per illustration.

It is practically the same as that shown below, excepting the threaded neck is made sufficiently large to engage the threaded neck of the shade.

Code Word.	List No.			List Price, per Doz.
Zacoden	24842	5534	16 C. P. guard, 1 gr.	$3.50
Zacodep	24843	5536	32 C. P. guard, 1 gr.	3.75

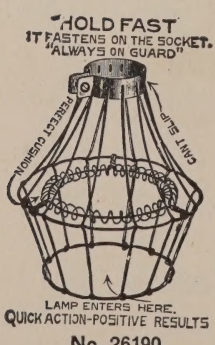
No. 24844.

HUBBELL LAMP GUARD.

This Lamp Guard is simple, rigid, durable and quickly attached.

Fits any standard socket shell, cannot become loose, and does not depend on lamp bulb for support.

Zacoder	24844	5485	16 C. P. guard, 1 gr.	3.50
Zacodes	24845	5487	32 C. P. guard, 1 gr.	3.75



No. 26190.

"HOLD-FAST" LAMP GUARD.

Made for Any Socket and Size of Lamp.

A Perfect Incandescent Lamp Protector.

Hold-fast Lamp Guards are "Fool-Proof."

They will stand the most severe usage.

Durable. Rigid. Compact. Neat.

Lamps can be replaced without disturbing guard.

The center spreading ring meets all the impact.

The spiral cushion takes the jar and vibration.

The downward rays of light are not obstructed.

Guard will stand on end. Convenient for bench work.

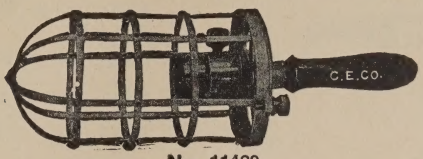
Hold-fast Lamp Guards are easily attached. Cannot be pulled off.

Hold-fast Lamp Guards are made in two sizes, one for regular sockets, one for weather proof.

Zacusur	26190	"Hold Fast" lamp guard.	1.80
Zacusus	26191	16 C. P. guards, extra heavy, extra.....	3.00
Zacusut	26192	32 C. P. guards, extra....	3.00

PORTABLE LAMP GUARDS AND HOLDERS.

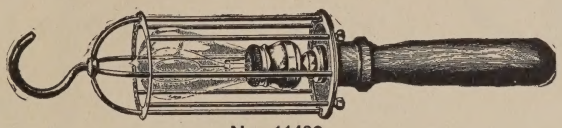
G. E. PORTABLE LAMP HOLDERS.



No. 11429.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zabozic	11429	25701	Aluminum Guard. Key Socket for Edison Lamp....	$2.50
Zabozid	11430	4974	Key Socket for T.-H. Lamp.....	1.25
Zabozif	11431	4975	Keyless Socket for T.-H. Lamp.....	1.00

CRESCENT PORTABLE LAMP GUARD.



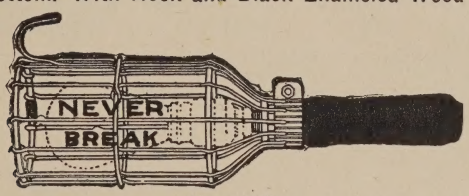
No. 11432.

Furnished in Copper or Black Oxidized.

Zabozig	11432	Complete with ⅜-in. Socket.....	2.00
Zabozih	11433	Complete without Socket.....	1.75

PORTABLE HAND GUARD.

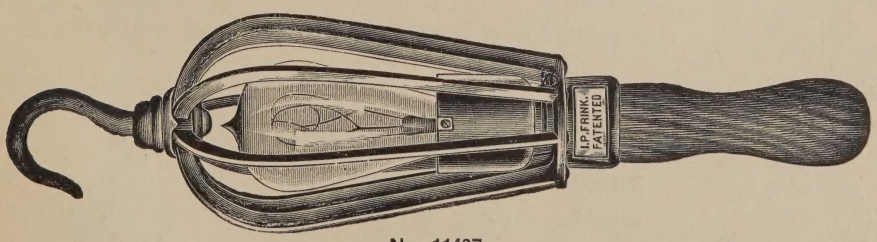
Open Bottom. With Hook and Black Enameled Wood Handle.



No. 11434.

				Per Doz.
Zabozik	11434	70	16 Candle.....	12.00
Zabozil	11435	72	32 Candle.....	16.00
Zabozim	11436	74	16 Candle, with Reflector.....	24.00

FRINK PORTABLE LAMP GUARD.



No. 11437.

Made from galvanized Bessemer steel. No strain on terminals or socket. Easily unlocked for re-lamping, and will not loosen from vibration. The strongest guard made. Obstruction of light the least. List price includes ½-in. or ⅜-in. weatherproof socket with reinforced set screw.

			Each.
Zabozin	11437	Each	1.75
Zabozip	11438	Lots of 25.....	1.60
Zabozir	11439	Lots of 100.....	1.45

STEWART SPECIALTIES.

No. 12243.

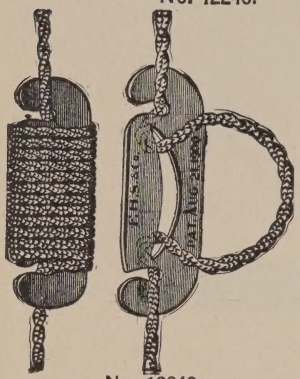
STEWART'S PATENT "ADJUSTANDLE."

FOR 1/8-IN. SOCKETS.

Code Word.	List No.		List Price. Per 100.
Zabulel	12243	Less than 500	$8.00
Zabulem	12244	500 to 1000	7.50
Zabulen	12245	1000 and over	7.20

FOR 3/8-IN. SOCKETS.

Zabulep	12246	Less than 500	12.00
Zabuler	12247	500 and over	11.00

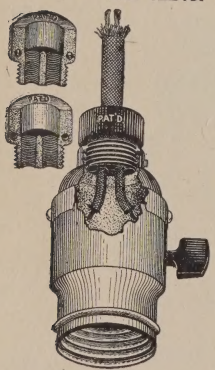


No. 12248.

STEWART'S PATENT CORD ADJUSTER.

FIBRE.

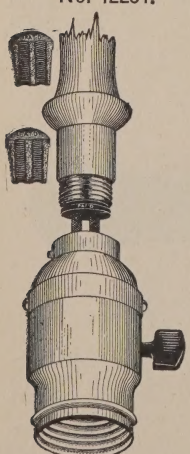
Zabules	12248	Less than 500	2.00
Zabulet	12249	500 to 1000	1.70
Zabulev	12250	1000 and over	1.50



No. 12251.

STEWART'S "KNOSTRAIN" 3-8 IN. SOCKET BUSHING.

Zabulew	12251	Less than 500	6.00
Zabulex	12252	500 to 1000	5.50
Zabuley	12253	1000 and over	5.00



No. 12254.

STEWART'S "KNOSTRAIN" HANDLE OR ROSETTE BUSHING.

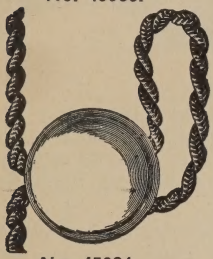
Zabulez	12254	Less than 500	5.00
Zabuli	12255	500 to 1000	4.50
Zabulib	12256	1000 and over	4.00

CORD ADJUSTERS.

No. 45927.

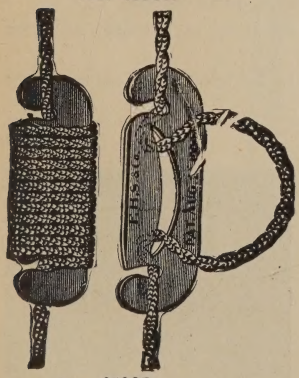
No. 45929.

No. 45930.



No. 45931.

No. 45933.



No. 45935.

No. 45936.

			List Price
Zukot	45927	Bar cord adjuster, wood, per 1000	$7.00
Zukov	45928	Bar cord adjuster, hard rubber, per 100	7.00
Zukow	45929	Dumb bell cord adjuster, per 1000	8.00
Zukox	45930	"Q" and "S" cord adjuster, each	.04
Zukoz	45931	Ball cord adjuster, stained cherry, per 1000	7.00
Zuku	45932	Ball cord adjuster, black enamel, per 1000	11.50

The Ball Cord Adjuster is also made for reinforced cord.

UNIVERSAL CORD ADJUSTER.

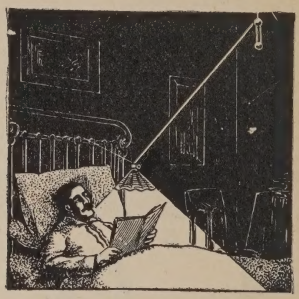
Zukub	45933	Standard size, 3¾ in., black enameled, per 1000	22.50
Zukud	45934	Factory size, 5⅛ in., black enameled, per 1000	30.00
Zukuf	45935	Stewart cord adjuster, made of red or black fibre, per 100	3.00

DOW CORD ADJUSTER.

Zukug	45936	Polished brass, each	2.40
Zukuh	45937	Nickel, each	2.16

"TWO BALL" ADJUSTERS."

The Only Practicable Device for Making Drop Lights "Stay Put."



The "Two Balls" Adjuster is a simple and inexpensive device for making drop lights instantly and automatically adjustable to any desired height. Patented October 25, 1898. The Pioneer Adjuster, and the only one that combines long range with absolute reliability. No springs or drums; nothing to get out of order; no loop of cord hanging down when the lamp is pushed up.

As sold to the trade the "Two Ball" Adjuster consists simply of "Two Balls" containing grooved pulleys of insulating material in which the cord runs. Canopies to match the balls can be furnished, but all other accessories are supplied by the electrician.

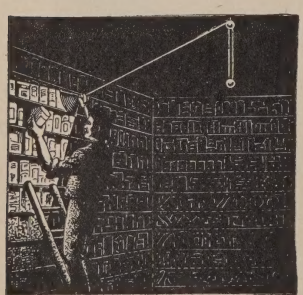
Two styles are made:

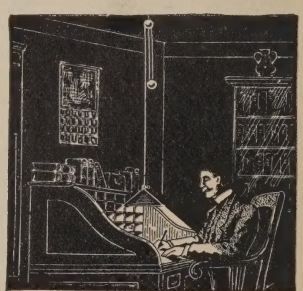
Style A, finished in black, gold bronze or aluminum, for stores, shops, factories, etc.

Style B, in plain brass, oxidized brass or nickel, for homes, banks, institutions, and all better classes of work. These two styles are identical except as to finish.

Special finishes to match interior fittings are furnished on order at a slight advance in price.

Lead balls can also be furnished where the Adjuster is to be used with extra heavy lamps or shades.

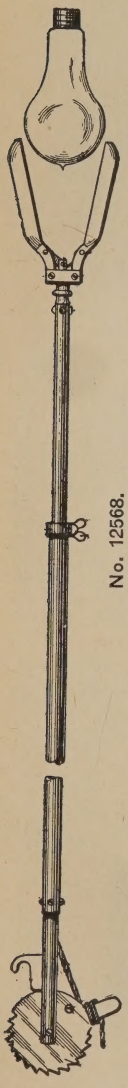




Code Word.	List No.	Style.		List Price, Each.
Zacunok	9173	A	Gold bronze, aluminum, black	$1.40
Zacunol	9174		Special finishes	1.90
Zacunom	9175	B	Plain brass, oxidized brass, nickel plated	2.20
Zacunon	9176		Special finishes	2.70
Zacunop	9177		Canopies to match	.50

Any of the above adjusters can be equipped with lead halls to carry heavy shades or special lamps at an additional chrge of .60.

LAMP REPLACERS, CLEANERS AND MANIPULATORS.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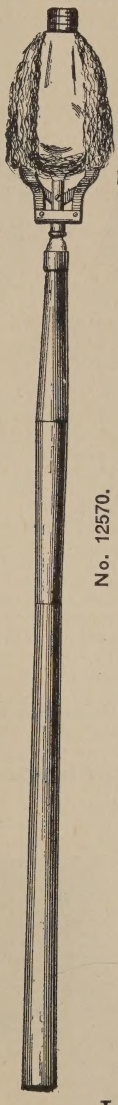
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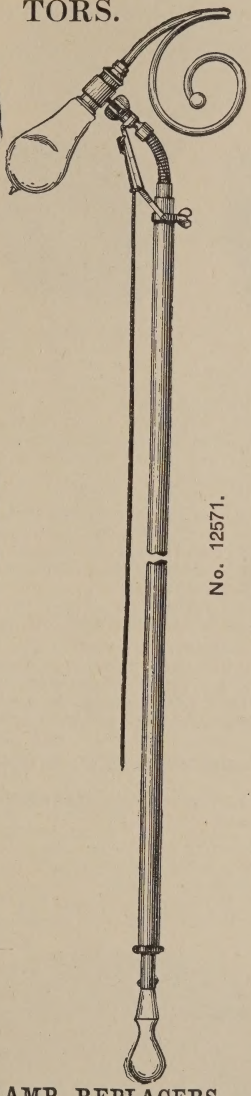
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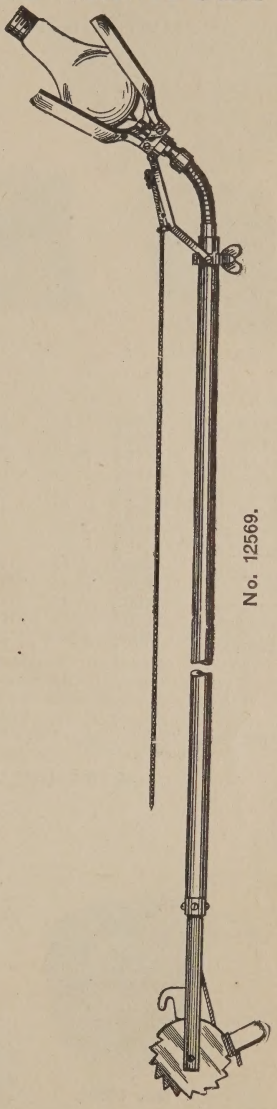

No. 12569.

LAMP REPLACERS.

No. 1. This style is suitable for street lamps, or any lamp that can be handled or replaced by a straight reach. It can be made telescopic.

Code Word.	List No.	Style No.		List Price, Each.	Additional Length per Foot.
Zabupen	12568	1	Three feet long	$3.50	$0.50
No. 3. This style is most suitable for fixed lamps hanging at any angle.					
Zabupep	12569	3	Three feet long	5.00	.75

HANDY BULB CLEANER.

Is for cleaning any C. P. lamp without removal from sockets. All orders should mention C. P. and shape of bulbs, and if for use inside of shades.

Zabuper	12570	4	Three feet long	2.00	.50

HANDY SWITCH AND SOCKET KEY MANIPULATOR.

Can be used for either electric or gas fixtures.

Zabupes	12571	5		4.00	.75

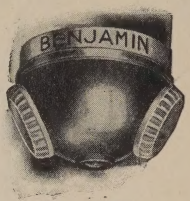
BENJAMIN CLUSTERS.

CLUSTER BODIES—FIBRE LINED—EDISON BASE—MULTIPLE.

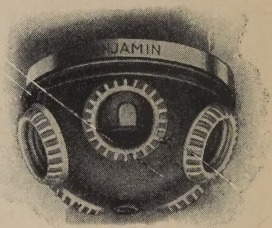
National Code Standard.

No. 14492.

No. 14493.



No. 14495.



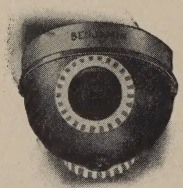
No. 14502.

Code Word.	List No.	Mfr. No.	Put Up 6 in a Box.	Cluster Body Only.	With Flange Attached.
Zacagod	14492	81	1-light multiple	$0.60	$0.70
Zacagof	14493	82	2-light multiple	.90	1.00
Zacagog	14494	3800	Flange tapped for ⅜-in. iron pipe	....	.10
Zacagoh	14495	22	2-light multiple	1.25	1.35
Zacagok	14496	23	3-light multiple	1.50	1.60
Zacagol	14497	24	4-light multiple	1.75	1.85
Zacagom	14498	3200	Flange tapped for ⅜-in. iron pipe	....	.10
Zacagon	14499	12	2-light multiple	1.50	1.65
Zacagop	14500	13	3-light multiple	1.75	1.90
Zacagor	14501	14	4-light multiple	2.00	2.15
Zacagos	14502	15	5-light multiple	2.25	2.40
Zacagot	14503	16	6-light multiple	2.50	2.65
Zacagov	14504	3100	Flange tapped for ⅜-in. iron pipe	....	.15

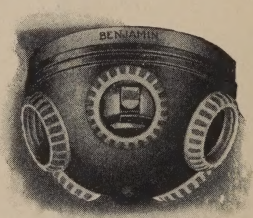
Type 8—Smallest Benjamin Cluster. Diameter, 2½ in.
Type 2—Essentially Type 1, but lower in price. Diameter, 3 in.
Type 1—Simple and compact, 2-6 lights. Diameter, 4 in.
Six full boxes of any single type body constitute a standard package. For body with flange add "F" to Cat. No. Standard finish—polished brass. For aluminum shell add .05.

CLUSTER BODIES—FIBRE LINED—EDISON BASE—SERIES.

National Code Standard.



No. 14505.



No. 14511.

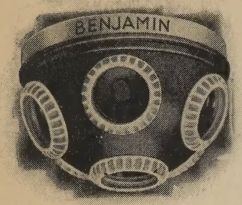
Zacagow	14505	22½	2-light series	1.30	1.40
Zacagox	14506	23½	3-light series	1.60	1.70
Zacagoy	14507	3200	Flange tapped for ⅜-in. iron pipe	....	.10

Type 2½—Essentially Type 1½, but lower in price. Diameter—3 inches.

Zacagoz	14508	12½	2-light series	1.55	1.70
Zacagu	14509	13½	3-light series	1.85	2.00
Zacagub	14510	14½	4-light series	2.10	2.25
Zacaguc	14511	15½	5-light series	2.35	2.50
Zacagud	14512	3100	Flange tapped for ⅜-in. iron pipe	....	.15

Type 1½—Simple and compact, 2-5 lights. Diameter, 4 in.
Contacts of different potentials are widely separated, porcelain partitions increasing insulation where necessary.
Six full boxes of any single type body constitute a standard package. For body with flange add "F" to Cat. No. Standard finish—polished brass. For aluminum shell add .05 for type 2½ and .10 for type 1½.

BENJAMIN CLUSTERS.



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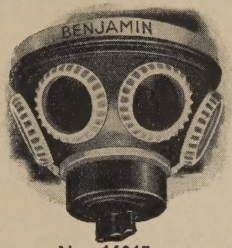

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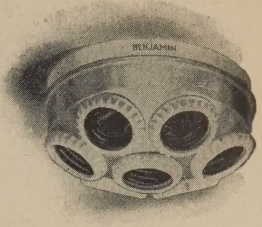


No. 14624.

CLUSTER BODIES—FIBRE LINED—EDISON BASE—MULTIPLE.

National Code Standard.

Code Word.	List No.	Mfr. No.	Put Up 6 in a Box.	Cluster Body Only.	With No. 3100 Flange Attached.
Zacaguk	14516	13K	3-light multiple	$1.75	$1.90
Zacagul	14517	14K	4-light multiple	2.00	2.15
Zacagum	14518	15K	5-light multiple	2.25	2.40
Zacagun	14519	16K	6-light multiple	2.50	2.65
Zacagup	14520	17K	7-light multiple	2.75	2.90

Type K—Substantially Type 1 plus center socket. For "turndown feature"—three wire connection, offering three degrees of illumination—first, center light only; second, side lights only; third, center and side lights—add "Y" to Cat. No. and .25 to list."

Zacagur	14521	72	2-light multiple	2.50	2.65
Zacagus	14522	73	3-light multiple	2.75	2.90
Zacahem	14613	74	4-light multiple	3.00	3.15
Zacahen	14614	75	5-light multiple	3.25	3.40
Zacahep	14615	76	6-light multiple	3.50	3.65
Zacaher	14616	3100	Flange tapped for ⅜-in. iron pipe	....	.15

Type 7—Type 1 body with indicating single pole snap switch, furnished with metal key unaffected by heat of lamps.

Six full boxes of any single type body constitute a standard package. For body with flange add "F" to Cat. No. Standard finish—polished brass. For aluminum shell add .10.

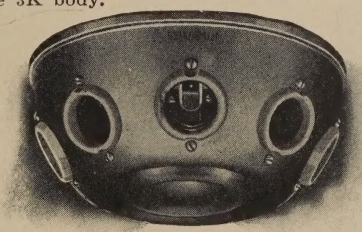
				Cluster Body Only.
Zacahes	14617	32	2-light multiple	1.50
Zacahet	14618	33	3-light multiple	1.75
Zacahev	14619	3200	Flange tapped for ⅜-in. iron pipe	.10

Type 3—Adapted for close grouping of individual units with glass balls, dome or stalactite globes. Used for street lighting posts, porch lights, etc. Diameter, 3⅜ in.

Zacahew	14620	33K	3-light multiple	2.00
Zacahex	14621	34K	4-light multiple	2.25
Zacahey	14622	35K	5-light multiple	2.50
Zacahez	14623	36K	6-light multiple	2.75
Zacahi	14624	37K	7-light multiple	3.00
Zacahib	14625	3100	Flange tapped for ⅜-in. iron pipe	.15

Type 3K—Essentially a Type 3 with larger base plus center socket. Used with standard or special lamps with ball, bowl or stalactite globes. Diameter, 4⅜ in.

Six full boxes of any single type body constitute a standard package. For body with flange add "F" to Cat. No. Standard finish—polished brass. For aluminum add .05 for Type 3 body, .10 for type 3K body.

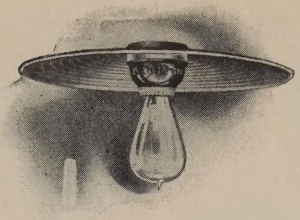


No. 14626.

			Put Up 1 in a Box.	Diameter in Inches.	
Zacahic	14626	608	8-light multiple or series	6¾	5.00
Zacahid	14627	610	10-light multiple or series	8¾	5.60
Zacahif	14628	612	12-light multiple or series	8¾	6.20
Zacahig	14629	615	15-light multiple or series	11¾	8.00
Zacahih	14630	620	20-light multiple or series	11¾	10.00

Six boxes of Type 600 constitute a standard package.

Standard finish—polished brass. For aluminum shell add .25.



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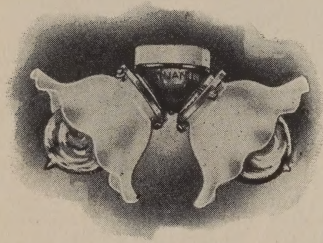

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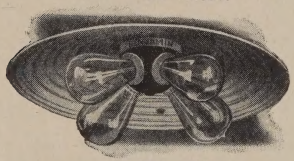

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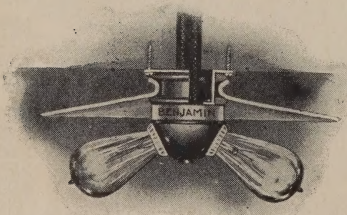

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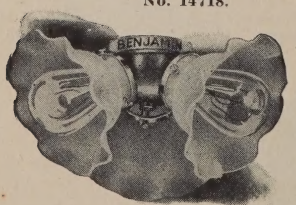

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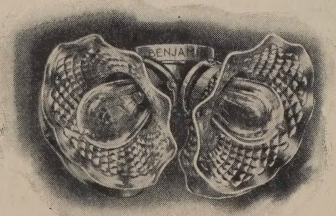


No. 14475.

BENJAMIN CLUSTERS.

CEILING FORMS—MULTIPLE—INTERIOR.

National Code Standard.

WITH 12-INCH ALUMINUM REFLECTOR.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacahik	14631	81A	1-Light	$1.90
Zacahil	14632	82A	2-Light	2.20

WITH 13-INCH STEEL REFLECTOR.

Zacahim	14633	81H	1-Light	2.00
Zacahin	14634	82H	2-Light	2.30

Twelve fixtures of Style 8R constitute a standard package.

Metal reflectors used fit cluster back—are placed between same and ceiling.

Zacahip	14635	851	1-Light with 2¼-in. holder only	.70
Zacakaw	14700	852	2-Light with 2¼-in. holder only	1.10
Zacakax	14701	861	1-Light with 1⅝-in. holder only	.70
Zacakay	14702	862	2-Light with 1⅝-in. holder only	1.10
Zacakaz	14703	81G	1-Light with opal shades	.90
Zacake	14704	82G	2-Light with opal shades	1.50
Zacakeb	14705	81V	1-Light with pagoda shades	1.45
Zacakec	14706	82V	2-Light with pagoda shades	2.60
Zacaked	14707	81N	1-Light with X-Ray shades	1.70
Zacakef	14708	82N	2-Light with X-Ray shades	3.10

Twelve fixtures of Style 8S constitute a standard package.

Cluster attaches directly to ceiling without stem.

WITH 14-INCH ALUMINUM REFLECTOR.

Zacakeg	14709	22A	2-Light	2.85
Zacakeh	14710	23A	3-Light	3.10
Zacakek	14711	24A	4-Light	3.35

WITH 15-INCH ENAMELED STEEL REFLECTOR.

Zacakel	14712	22H	2-Light	3.05
Zacakem	14713	23H	3-Light	3.30
Zacaken	14714	24H	4-Light	3.55

Twelve fixtures of Style 2R constitute a standard package.

Metal reflectors used fit cluster back—are placed between same and ceiling.

WITH NO. 200 SUB-BASE ONLY.

Zacakep	14715	222	2-Light	1.85
Zacaker	14716	223	3-Light	2.10
Zacakes	14717	224	4-Light	2.35

WITH BASE—14-INCH OPAL REFLECTOR.

Zacaket	14718	222P	2-Light	2.45
Zacakev	14719	223P	3-Light	2.70
Zacakew	14720	224P	4-Light	2.95

Twelve fixtures of Style 200R constitute a standard package.

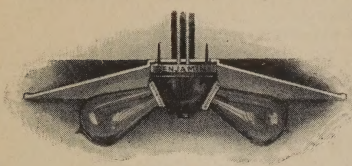
Rubber rings on sub-base form resilient support for reflectors, prevent contact with metal at any point, thus lessening breakage.

Zacahan	14559	252	2-Light with 2¼-in. holders only	1.45
Zacahap	14560	253	3-Light with 2¼-in. holders only	1.80
Zacahar	14561	254	4-Light with 2¼-in. holders only	2.15
Zacahas	14562	262	2-Light with 1⅝-in. holders only	1.45
Zacahat	14563	263	3-Light with 1⅝-in. holders only	1.80
Zacahav	14564	264	4-Light with 1⅝-in. holders only	2.15
Zacahaw	14565	22G	2-Light with opal shades	1.85
Zacahax	14566	23G	3-Light with opal shades	2.40
Zacahay	14567	24G	4-Light with opal shades	2.95
Zacagif	14470	22V	2-Light with pagoda shades	2.95
Zacagig	14471	23V	3-Light with pagoda shades	4.05
Zacagih	14472	24V	4-Light with pagoda shades	5.15
Zacagik	14473	22N	2-Light with X-Ray shades	3.45
Zacagil	14474	23N	3-Light with X-Ray shades	4.80
Zacagim	14475	24N	4-Light with X-Ray shades	6.15

Twelve fixtures of Style 2S constitute a standard package.

Cluster attaches directly to ceiling without stem.

BENJAMIN CLUSTERS.



No. 14476.

CEILING FORMS—SERIES—INTERIOR.

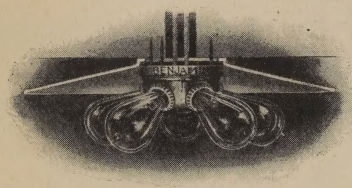
National Code Standard.

WITH 15-INCH ENAMELLED STEEL REFLECTOR.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacagip	**14476**	22½H	2-Light	**3.10**
Zacagir	**14477**	23½H	3-Light	**3.40**

Twelve fixtures of Style 2½R constitute a standard package.

Metal reflectors used fit cluster back—are placed between same and ceiling. Aluminum reflector will be furnished if specified.



No. 14485.

WITH NO. 200 SUB-BASE ONLY.

Zacagis	**14478**	222½	2-Light	**1.90**
Zacagit	**14479**	223½	3-Light	**2.20**

WITH BASE—14-INCH OPAL REFLECTOR.

Zacagiv	**14480**	222½P	2-Light	**2.50**
Zacagiw	**14481**	223½P	3-Light	**2.80**

Twelve fixtures of Style 250R constitute a standard package.

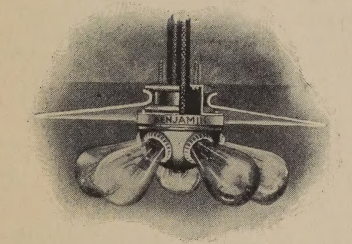
Rubber rings on sub-base form resilient support for reflectors, prevent contact with metal at any point, thus lessening breakage.

WITH 15-INCH ENAMELLED STEEL REFLECTOR.

Zacagix	**14482**	12½H	2-Light	**3.35**
Zacagiy	**14483**	13½H	3-Light	**3.65**
Zacagiz	**14484**	14½H	4-Light	**3.90**
Zacago	**14485**	15½H	5-Light	**4.15**

Twelve fixtures of Style 1½R constitute a standard package.

Metal reflectors used fit cluster back—are placed between same and ceiling. Aluminum reflector will be furnished if specified.



No. 14687.

WITH NO. 100 SUB-BASE ONLY.

Zacagob	**14486**	112½	2-Light	**2.15**
Zacagin	**14487**	113½	3-Light	**2.45**
Zacahuy	**14682**	114½	4-Light	**2.70**
Zacahuz	**14683**	115½	5-Light	**2.95**

WITH BASE—14-INCH OPAL REFLECTOR.

Zacaka	**14684**	112½P	2-Light	**2.75**
Zacakab	**14685**	113½P	3-Light	**3.05**
Zacakac	**14686**	114½P	4-Light	**3.30**
Zacakad	**14687**	115½P	5-Light	**3.55**

Twelve fixtures of Style 150R constitute a standard package.

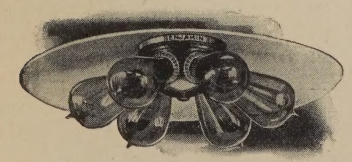
Rubber rings on sub-base form resilient support for reflectors, prevent contact with metal at any point, thus lessening breakage.

CEILING FORMS—MULTIPLE INTERIOR.

National Code Standard.

WITH 14-INCH ALUMINUM REFLECTOR.

Zacakaf	**14688**	12A	2-Light	**3.10**
Zacakag	**14689**	13A	3-Light	**3.35**
Zacakah	**14690**	14A	4-Light	**3.60**
Zacakak	**14691**	15A	5-Light	**3.85**
Zacakal	**14692**	16A	6-Light	**4.10**



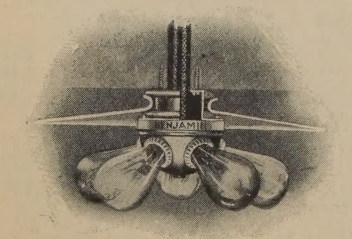
No. 14697.

WITH 15-INCH ENAMELLED STEEL REFLECTOR.

Zacakam	**14693**	12H	2-Light	**3.30**
Zacakan	**14694**	13H	3-Light	**3.55**
Zacakap	**14695**	14H	4-Light	**3.80**
Zacakar	**14696**	15H	5-Light	**4.05**
Zacakas	**14697**	16H	6-Light	**4.30**

Twelve fixtures of Style 1R constitute a standard package.

Metal reflectors used fit cluster back—are placed between same and ceiling.



No. 14658.

WITH NO. 100 SUB-BASE ONLY.

Zacakat	**14698**	112	2-Light	**2.10**
Zacakav	**14699**	113	3-Light	**2.35**
Zacahol	**14652**	114	4-Light	**2.60**
Zacahom	**14653**	115	5-Light	**2.85**
Zacahon	**14654**	116	6-Light	**3.10**

WITH BASE—14-INCH OPAL REFLECTOR.

Zacahop	**14655**	112P	2-Light	**2.70**
Zacahor	**14656**	113P	3-Light	**2.95**
Zacahos	**14657**	114P	4-Light	**3.20**
Zacahot	**14658**	115P	5-Light	**3.45**
Zacahov	**14659**	116P	6-Light	**3.70**

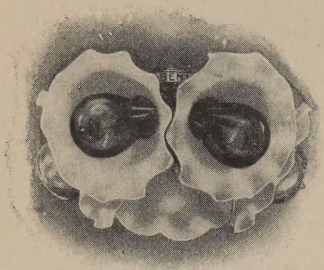
Twelve fixtures of Style 100R constitute a standard package.

Rubber rings on sub-base form resilient support for reflectors, prevent contact with metal at any point, thus lessening breakage.

BENJAMIN CLUSTERS.

CEILING FORMS—MULTIPLE—INTERIOR.

National Code Standard.



No. 14542.

WITH 2¼-INCH HOLDER ONLY.

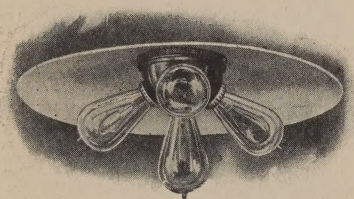
Code Word.	List No.	Mfr. No.		List Price, Each.
Zacahow	14660	152	2-Light	$1.70
Zacahox	14661	153	3-Light	2.05
Zacahoy	14662	154	4-Light	2.40
Zacahoz	14663	155	5-Light	2.75

WITH 1⅝-INCH HOLDER ONLY.

Zacahu	14664	162	2-Light	1.70
Zacahub	14665	163	3-Light	2.05
Zacahuc	14666	164	4-Light	2.40
Zacahud	14667	165	5-Light	2.75
Zacahuf	14668	166	6-Light	3.10

WITH OPAL SHADES.

Zacahug	14669	12G	2-Light	2.10
Zacahuh	14670	13G	3-Light	2.65
Zacahuk	14671	14G	4-Light	3.20
Zacagut	14542	15G	5-Light	3.75



No. 14548.

WITH PAGODA SHADES.

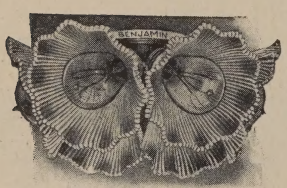
Zacaguv	14543	12V	2-Light	3.20
Zacaguw	14544	13V	3-Light	4.30
Zacagux	14545	14V	4-Light	5.40
Zacaguy	14547	15V	5-Light	6.50
Zacaguz	14548	16V	6-Light	7.60

WITH X-RAY SHADES.

Zacaha	14549	12N	2-Light	3.70
Zacahab	14550	13N	3-Light	5.05
Zacahac	14551	14N	4-Light	6.40
Zacahad	14552	15N	5-Light	7.75

Twelve fixtures of Style 1S constitute a standard package.

Cluster attaches directly to ceiling without stem.



No. 14637.

WITH 14-INCH ALUMINUM REFLECTOR.

Zacahaf	14553	13KA	3-Light	3.35
Zacahag	14554	14KA	4-Light	3.60
Zacahah	14555	15KA	5-Light	3.85
Zacahal	14557	16KA	6-Light	4.10
Zacaham	14558	17KA	7-Light	4.35

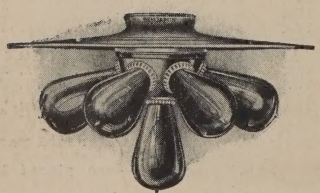
WITH 15-INCH ENAMELLED STEEL REFLECTOR.

Zacahir	14636	13KH	3-Light	3.50
Zacahis	14637	14KH	4-Light	3.80
Zacahit	14638	15KH	5-Light	4.05
Zacahiv	14639	16KH	6-Light	4.30
Zacahiw	14640	17KH	7-Light	4.55

Twelve fixtures of Style KR constitute a standard package.

Metal reflectors used fit cluster back—are placed between same and ceiling.

For "Turn-Down" feature furnishing three degrees of illumination add "Y" to catalog number and .25 to list.



No. 14649.

WITH NO. 100 SUB-BASE ONLY.

Zacahix	14641	113K	3-Light	2.35
Zacahiy	14642	114K	4-Light	2.60
Zacahiz	14643	115K	5-Light	2.85
Zacaho	14644	116K	6-Light	3.10
		117K	7-Light	3.35

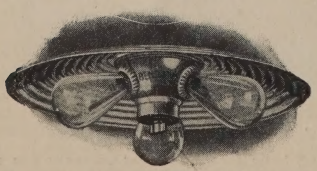
WITH BASE—14-INCH OPAL REFLECTOR.

Zacahob	14645	113KP	3-Light	2.95
Zacahoc	14646	114KP	4-Light	3.20
Zacahod	14647	115KP	5-Light	3.45
Zacahof	14648	116KP	6-Light	3.70
Zacahog	14649	117KP	7-Light	3.95

Twelve fixtures of Style 100KR constitute a standard package.

Rubber rings on sub-base form resilient support for reflectors, prevent contact with metal at any point, thus lessening breakage.

For "Turn-Down" feature furnishing three degrees of illumination add "Y" to catalog number and .25 to list.



No. 14651.

WITH 14-INCH ALUMINUM REFLECTOR.

Zacahoh	14650	72A	2-Light	4.10
Zacahok	14651	73A	3-Light	4.35
Zacahaz	14603	74A	4-Light	4.60
Zacahe	14604	75A	5-Light	4.85
Zacaheb	14605	76A	6-Light	5.10

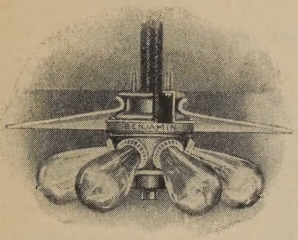
WITH 15-INCH ENAMELLED STEEL REFLECTOR.

Zacahec	14606	72H	2-Light	4.30
Zacahed	14607	73H	3-Light	4.55
Zacahef	14608	74H	4-Light	4.80
Zacaheg	14609	75H	5-Light	5.05
Zacaheh	14610	76H	6-Light	5.30

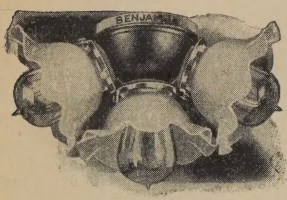
Twelve fixtures of Style 7R constitute a standard package.

Metal reflectors used fit cluster back—are placed between same and ceiling.

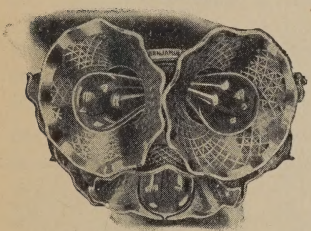
BENJAMIN CLUSTERS.



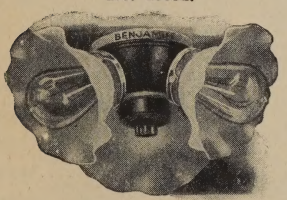
No. 10009.



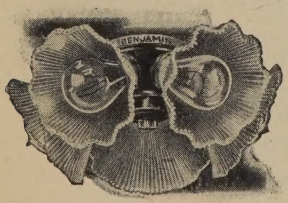
No. 10019.



No. 10031.



No. 10042.



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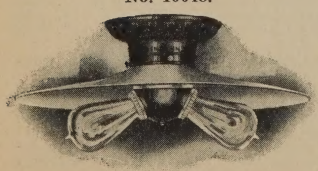


No. 10057.

CEILING FORMS—MULTIPLE—INTERIOR.

National Code Standard.

WITH NO. 100 SUB-BASE ONLY.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacugay	10000	172	2-Light	$3.10
Zacugaz	10001	173	3-Light	3.35
Zacuge	10002	174	4-Light	3.60
Zacugeb	10003	175	5-Light	3.85
Zacugec	10004	176	6-Light	4.10

WITH BASE—14 INCH OPAL REFLECTOR.

Zacuged	10005	172P	2-Light	3.70
Zacugef	10006	173P	3-Light	3.95
Zacugeg	10007	174P	4-Light	4.20
Zacugeh	10008	175P	5-Light	4.45
Zacugek	10009	176P	6-Light	4.70

Twelve fixtures of Style 700R constitute a standard package.
Rubber rings on sub-base form resilient support for reflectors, prevent contact with metal at any point, thus lessening breakage.

Zacugel	10010	153K	3-Light with 2¼-in. Holders only	2.05
Zacugem	10011	154K	4-Light with 2¼-in. Holders only	2.40
Zacugen	10012	155K	5-Light with 2¼-in. Holders only	2.75
Zacugep	10013	156K	6-Light with 2¼-in. Holders only	3.10
Zacuger	10014	163K	3-Light with 1⅝-in. Holders only	2.05
Zacuges	10015	164K	4-Light with 1⅝-in. Holders only	2.40
Zacuget	10016	165K	5-Light with 1⅝-in. Holders only	2.75
Zacugev	10017	166K	6-Light with 1⅝-in. Holders only	3.10
Zacugew	10018	167K	7-Light with 1⅝-in. Holders only	3.45
Zacugex	10019	13KG	3-Light with Opal Shades	2.65
Zacugey	10020	14KG	4-Light with Opal Shades	3.20
Zacugez	10021	15KG	5-Light with Opal Shades	3.75
Zacugi	10022	16KG	6-Light with Opal Shades	4.30
Zacugib	10023	13KV	3-Light with Pagoda Shades	4.30
Zacugic	10024	14KV	4-Light with Pagoda Shades	5.40
Zacugid	10025	15KV	5-Light with Pagoda Shades	6.50
Zacugif	10026	16KV	6-Light with Pagoda Shades	7.60
Zacugig	10027	17KV	7-Light with Pagoda Shades	8.70
Zacugih	10028	13KN	3-Light with X-Ray Shades	5.05
Zacugik	10029	14KN	4-Light with X-Ray Shades	6.40
Zacugil	10030	15KN	5-Light with X-Ray Shades	7.75
Zacugim	10031	16KN	6-Light with X-Ray Shades	9.10

Twelve fixtures of Style KS constitute a standard package.
Cluster attaches directly to ceiling without stem.
For "Turn-Down" feature, furnishing three degrees of illumination, add "Y" to catalogue number and 25 cents to list.

Zacugin	10032	752	2-Light with 2¼-in. Holders only	2.70
Zacugip	10033	753	3-Light with 2¼-in. Holders only	3.05
Zacugir	10034	754	4-Light with 2¼-in. Holders only	3.40
Zacugis	10035	755	5-Light with 2¼-in. Holders only	3.75
Zacugit	10036	762	2-Light with 1⅝-in. Holders only	2.70
Zacugiv	10037	763	3-Light with 1⅝-in. Holders only	3.05
Zacugiw	10038	764	4-Light with 1⅝-in. Holders only	3.40
Zacugix	10039	765	5-Light with 1⅝-in. Holders only	3.75
Zacugiy	10040	766	6-Light with 1⅝-in. Holders only	4.10
Zacugiz	10041	72G	2-Light with Opal Shades	3.10
Zacugo	10042	73G	3-Light with Opal Shades	3.65
Zacugob	10043	74G	4-Light with Opal Shades	4.20
Zacugoc	10044	75G	5-Light with Opal Shades	4.75
Zacugod	10045	72V	2-Light with Pagoda Shades	4.20
Zacugof	10046	73V	3-Light with Pagoda Shades	5.30
Zacugog	10047	74V	4-Light with Pagoda Shades	6.40
Zacugoh	10048	75V	5-Light with Pagoda Shades	7.50
Zacugok	10049	76V	6-Light with Pagoda Shades	8.60
Zacugol	10050	72N	2-Light with X-Ray Shades	4.70
Zacugom	10051	73N	3-Light with X-Ray Shades	6.05
Zacugon	10052	74N	4-Light with X-Ray Shades	7.40
Zacugop	10053	75N	5-Light with X-Ray Shades	8.75

Twelve fixtures of Style 7S constitute a standard package.
Cluster attaches directly to ceiling without stem.

WITH NO. 300 BASE ONLY, 6x3¼ INCHES.

Zacugor	10054	322	2-Light	2.50
Zacugos	10055	323	3-Light	2.75
Zacugot	10056	324	4-Light	3.00

WITH BASE—14 INCH OPAL REFLECTOR.

Zacugov	10057	322P	2-Light	3.10
Zacugow	10058	323P	3-Light	3.35
Zacugox	10059	324P	4-Light	3.60

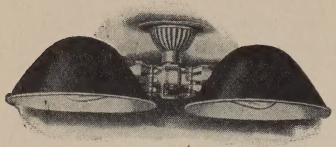
Twelve fixtures of Style 32R constitute a standard package.

ORNAMENTAL FLANGE ONLY.

Zacugoy	10060	34U	4¼-in.	.20
Zacugoz	10061	46U	6 -in.	.40

Thirty-six ornamental flanges constitute a standard package.
Flange No. 34U fits 3 inch base—Type 2 body; No. 46U, 4 inch base—Types 1, 7 and K.

BENJAMIN CLUSTERS.



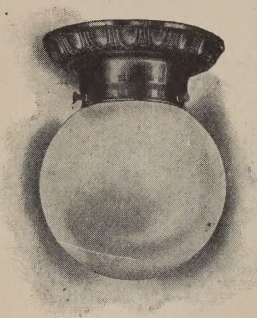
No. 10067.

CEILING FORMS—MULTIPLE—INTERIOR.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacugu	10062	481	1-light, complete, less shades...	$0.90
Zacugub	10063	482	2-light, complete, less shades...	1.10
Zacuguc	10064	48271	1-light, complete, less flange....	1.20
Zacugud	10065	48272	2-light, complete, less flange....	2.10
Zacuguf	10066	482741	1-light, complete, with flange...	1.60
Zacugug	10067	482742	2-light, complete, with flange...	2.50

Twelve fixtures of Style 474 complete constitute a standard package.

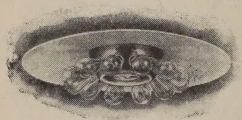
Shades, while firmly attached to socket, can be rotated at will, thus securing any desired distribution of light.



No. 10071.

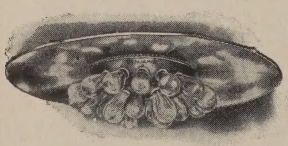
Zacuguh	10068	331	1-light, with No. 300 base only, 6x3¼-in.	1.85
Zacuguk	10069	332	2-light, with No. 300 base only, 8x7-in.	4.00
Zacugul	10070	333	3-light, with No. 300 base only, 8x7-in.	4.25
Zacugum	10071	331B	1-light, with No. 300 base, 6-in. C. R. I. globe	2.25
Zacugun	10072	332B	2-light, with No. 300 base, 8-in. C. R. I. globe	5.20
Zacugup	10073	333B	3-light, with No. 300 base, 8-in. C. R. I. globe	5.45

Twelve fixtures of Style 33B constitute a standard package. Can be furnished as high as seven lights.



No. 10076.

Zacugur	10074	608H	8-light, 6¾-in. dia., 20-in. steel reflector.	8.00
Zacugus	10075	610H	10-light, 8¾-in. dia., 20-in. steel reflector.	8.60
Zacugut	10076	612H	12-light, 8¾-in. dia., 20-in. steel reflector.	9.20
Zacuguv	10077	615H	15-light, 11¾-in. dia., 24-in. steel reflector.	12.00
Zacuguw	10078	620H	20-light, 11¾-in. dia., 24-in. steel reflector.	14.00
Zacugux	10079	608PM	8-light, 24-in. plain edge mirror reflector.	9.50
Zacuguy	10080	610PM	10-light, 24-in. plain edge mirror reflector.	10.10
Zacuguz	10081	612PM	12-light, 24-in. plain edge mirror reflector.	10.70
Zacuha	10082	615PM	15-light, 30-in. plain edge mirror reflector.	15.10
Zacuhab	10083	620PM	20-light, 30-in. plain edge mirror reflector.	17.10
Zacuhac	10084	608BM	8-light, 24-in. border edge mirror reflector.	13.00
Zacuhad	10085	610BM	10-light, 24-in. border edge mirror reflector.	13.60
Zacuhaf	10086	612BM	12-light, 24-in. border edge mirror reflector.	14 20
Zacuhag	10087	615BM	15-light, 30-in. border edge mirror reflector.	19.00
Zacuhah	10088	620BM	20-light, 30-in. border edge mirror reflector.	21.00



No. 10083.

Six fixtures of Style 600R constitute a standard package.

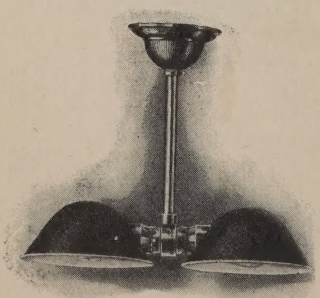
All 600 Bodies require stems. Nos. 608-612 inclusive are tapped for ⅜-inch pipe; Nos. 615-620 inclusive for ½-inch pipe.

Bodies ranging from 8-12 lights have removable cap, thus facilitate making connections. They can also be furnished with additional centre lamp opening. In ordering the latter add "K" to catalogue number and 30 cents to list.

Can be used for either multiple or series.

PENDANT FORMS—MULTIPLE—INTERIOR.

National Code Standard.



No. 10092.

Zacuhak	10089	0431	1-light, complete, less shades...	1.10
Zacuhal	10090	0432	2-light, complete, less shades...	1.30
Zacuham	10091	043271	1-light, complete.	1.80
Zacuhan	10092	043272	2-light, complete.	2.70

Twelve fixtures of Style 047 with or without shades, but complete with stems and canopies, constitute a standard package.

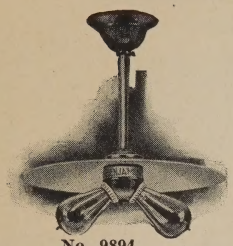
Shades, while firmly attached to socket, can be rotated at will, thus securing any desired distribution of light.

Stems not exceeding 36 inches are of ⅝-inch brass tubing; longer lengths of ⅜-inch iron pipe and ¾-inch brass casing.

Standard length stem is 8 inches. Extra lengths—if of ⅝-inch brass tubing—list at 35 cents per foot; if of ⅜-inch iron pipe and ¾-inch brass casing—at 50 cents per foot.

For deep canopy and insulating joint add 70 cents to list.

BENJAMIN CLUSTERS.



No. 9894.

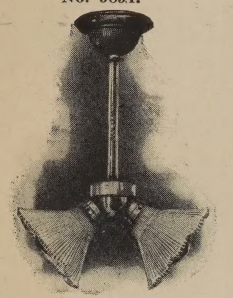
PENDANT FORMS—MULTIPLE—INTERIOR.

National Code Standard.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacuhap	9987	081	1-Light without holder or reflector	$1.30
Zacuhar	9888	082	2-Light without holder or reflector	1.60
Zacuhas	9889	0871	1-Light with 2¼-in. holder only	1.50
Zacuhat	9890	0872	2-Light with 2¼-in. holder only	1.80
Zacuhav	9891	0891	1-Light with 3¼-in. holder only	1.60
Zacuhaw	9892	0892	2-Light with 3¼-in. holder only	1.90
Zacuhax	9893	081P	1-Light with 12-in. opal reflector	2.00
Zacuhay	9894	082P	2-Light with 12-in. opal reflector	2.30
Zacuhaz	9895	081A	1-Light with 12-in. alum. reflector	2.60
Zacuhe	9896	082A	2-Light with 12-in. alum. reflector	2.90
Zacuheb	9897	081H	1-Light with 13-in. enam. steel reflector	2.70
Zacuhec	9898	082H	2-Light with 13-in. enam. steel reflector	3.00
Zacuhed	9899	0851	1-Light with 2¼-in. holder only	1.40
Zacuhef	9900	0852	2-Light with 2¼-in. holder only	1.80
Zacuheg	9901	0861	1-Light with 1⅝-in. holder only	1.40
Zacuheh	9902	0862	2-Light with 1⅝-in. holder only	1.80
Zacuhek	9903	081G	1-Light with opal shades	1.60
Zacuhel	9904	082G	2-Light with opal shades	2.20
Zacuhem	9905	081V	1-Light with pagoda shades	2.15
Zacuhen	9906	082V	2-Light with pagoda shades	3.30
Zacuhep	9907	081N	1-Light with X-Ray shades	2.40
Zacuher	9908	082N	2-Light with X-Ray shades	3.80

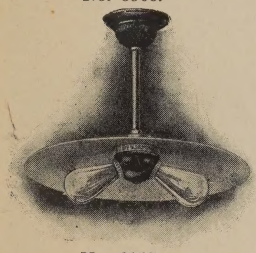
Twelve complete fixtures of either Style 08R or Style 08S constitute a standard package.

Standard length stem is 8 inches.



No. 9906.

Zacuhes	9909	022	2-Light without holder or reflector	1.95
Zacuhet	9910	023	3-Light without holder or reflector	2.20
Zacuhev	9911	024	4-Light without holder or reflector	2.45
Zacuhew	9912	0292	2-Light with 3¼-in. holder only	2.25
Zacuhex	9913	0293	3-Light with 3¼-in. holder only	2.50
Zacuhey	9914	0294	4-Light with 2¼-in. holder only	2.75
Zacuhi	9915	*022P	2-Light with 14-in. opal reflector	2.85
Zacuhib	9916	*022A	2-Light with 14-in. alum. reflector	3.55
Zacuhic	9917	*022H	2-Light with 15-in. enam. steel reflector.	3.75
Zacuhid	9918	0252	2-Light with 2¼-in. holders only	2.15
Zacuhif	9919	0253	3-Light with 2¼-in. holders only	2.50
Zacuhig	9920	0254	4-Light with 2¼-in. holders only	2.85
Zacuhih	9921	0262	2-Light with 1⅝-in. holders only	2.15
Zacuhik	9922	0263	3-Light with 1⅝-in. holders only	2.50
Zacuhil	9923	0264	4-Light with 1⅝-in. holders only	2.85
Zacuhim	9924	*022G	2-Light with opal shades	2.55
Zacuhin	9925	*022V	2-Light with pagoda shades	3.65
Zacuhip	9926	*022N	2-Light with X-Ray shades	4.15

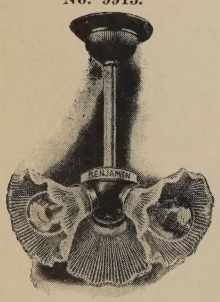


No. 9915.

Twelve complete fixtures of either Style 02R or Style 02S constitute a standard package.

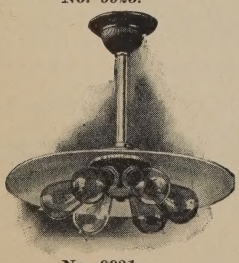
Standard length stem is 8 inches.

*For additional lights substitute the desired number for Fig. "2" of Cat. No., and add to list for each additional light as follows: P. A. and H, .25; G, .55; V, 1.10; N, 1.35.



No. 9925.

Zacuhir	9927	012	2-Light without holder or reflector	2.25
Zacuhis	9928	013	3-Light without holder or reflector	2.50
Zacuhit	9929	014	4-Light without holder or reflector	2.75
Zacuhiv	9930	015	5-Light without holder or reflector	3.00
Zacuhiw	9931	016	6-Light without holder or reflector	3.25
Zacuhix	9932	0192	2-Light with 3¼-in. holder only	2.55
Zacuhiy	9933	0193	3-Light with 3¼-in. holder only	2.80
Zacuhiz	9934	0194	4-Light with 3¼-in. holder only	3.05
Zacuho	9935	0195	5-Light with 3¼-in. holder only	3.30
Zacuhob	9936	0196	6-Light with 3¼-in. holder only	3.55
Zacuhoc	9937	*012P	2-Light with 14-in. opal reflector	3.15
Zacuhod	9938	*012A	2-Light with 14-in. alum. reflector	3.85
Zacuhof	9939	*012H	2-Light with 15-in. enam. steel reflector.	4.05
Zacuhog	9940	0152	2-Light with 2¼-in. holders only	2.45
Zacuhoh	9941	0153	3-Light with 2¼-in. holders only	2.80
Zacuhok	9942	0154	4-Light with 2¼-in. holders only	3.15
Zacuhol	9943	0155	5-Light with 2¼-in. holders only	3.50
Zacuhom	9944	0162	2-Light with 1⅝-in. holders only	2.45
Zacuhon	9945	0163	3-Light with 1⅝-in. holders only	2.80
Zacuhop	9946	0164	4-Light with 1⅝-in. holders only	3.15
Zacuhor	9947	0165	5-Light with 1⅝-in. holders only	3.50
Zacuhos	9948	0166	6-Light with 1⅝-in. holders only	3.85
Zacuhot	9949	*012G	2-Light with opal shades	2.85
Zacuhov	9950	*012V	2-Light with pagoda shades	3.95
Zacuhow	9951	*012N	2-Light with X-Ray shades	4.45



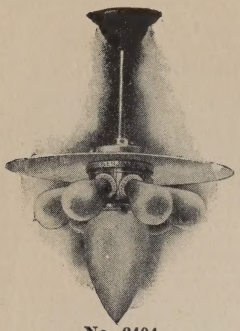
No. 9931.

Twelve complete fixtures of either Style 01R or Style 01S constitute a standard package.

*For additional lights substitute the desired number for Fig. "2" of Cat. No., and add to list for each additional light as follows: P, A and H, .25; G, .55; V, 1.10; N, 1.35.

Standard length stem is 8 inches.

BENJAMIN CLUSTERS.



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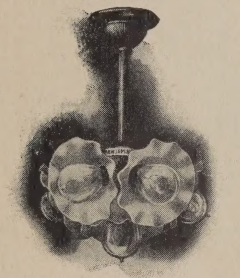

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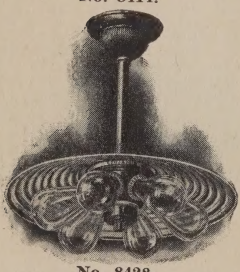

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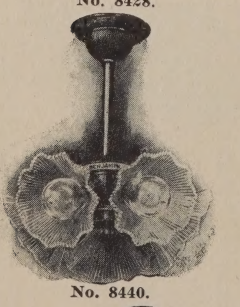


No. 8440.

No. 8456.

PENDANT FORMS—MULTIPLE—INTERIOR.

National Code Standard.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacuhox	8394	093K	3-light, with top holder only	$2.80
Zacuhoy	8395	094K	4-light, with top holder only	3.05
Zacuhoz	8396	095K	5-light, with top holder only	3.30
Zacuhu	8397	096K	6-light, with top holder only	3.55
Zacuhub	8398	097K	7-light, with top holder only	3.80
Zacuhuc	8399	0593K	3-light, with holders only	3.00
Zacuhud	8400	0594K	4-light, with holders only	3.25
Zacuhuf	8401	0595K	5-light, with holders only	3.50
Zacuhug	8402	0596K	6-light, with holders only	3.75
Zacuhuh	8403	0597K	7-light, with holders only	4.00
Zacuhuk	8404	*03KPS	3-light, with reflector and globe	4.40
Zacuhul	8405	0153K	3-light, with 2¼-in. holders only	2.80
Zacuhum	8406	0154K	4-light, with 2¼-in. holders only	3.15
Zacuhun	8407	0155K	5-light, with 2¼-in. holders only	3.50
Zacuhup	8408	0156K	6-light, with 2¼-in. holders only	3.85
Zacuhur	8409	0163K	3-light, with 1⅝-in. holders only	2.80
Zacuhus	8410	0164K	4-light, with 1⅝-in. holders only	3.15
Zacuhut	8411	0165K	5-light, with 1⅝-in. holders only	3.50
Zacuhuv	8412	0166K	6-light, with 1⅝-in. holders only	3.85
Zacuhuw	8413	0167K	7-light, with 1⅝-in. holders only	4.20
Zacuhux	8414	*013KG	3-light, with opal shades	3.40
Zacuhuy	8415	*013KV	3-light, with pagoda shades	5.05
Zacuhuz	8416	*013KN	3-light, with X-ray shades	5.80

Twelve complete fixtures of either Style OKR or Style OKS constitute a standard package. *For additional lights substitute the desired number for Fig. "3" of Cat. No., and add to list for each additional light as follows: KPS, $0.25; G, $0.55; V, $1.10; N, $1.35. For "Turn-Down" feature, furnishing three degrees of illumination, add "Y" to catalogue number and 25 cents to list. Standard length stem is 8 inches.

Zacuka	8417	072	2-light, without holder or reflector	3.25
Zacukab	8418	073	3-light, without holder or reflector	3.50
Zacukac	8419	074	4-light, without holder or reflector	3.75
Zacukad	8420	075	5-light, without holder or reflector	4.00
Zacukaf	8421	076	6-light, without holder or reflector	4.25
Zacukag	8422	0792	2-light, with 3¼-in. holder only	3.55
Zacukah	8423	0793	3-light, with 3¼-in. holder only	3.80
Zacukak	8424	0794	4-light, with 3¼-in. holder only	4.05
Zacukal	8425	0795	5-light, with 3¼-in. holder only	4.30
Zacukam	8426	0796	6-light, with 3¼-in. holder only	4.55
Zacukan	8427	*072P	2-light, with 14-in. opal reflector	4.15
Zacukap	8428	*072A	2-light, with 14-in. alum. reflector	4.85
Zacukar	8429	*072H	2-light, with 15-in. enam. steel refl.	5.05
Zacukas	8430	0752	2-light, with 2¼-in. holders only	3.45
Zacukat	8431	0753	3-light, with 2¼-in. holders only	3.80
Zacukav	8432	0754	4-light, with 2¼-in. holders only	4.15
Zacukaw	8433	0755	5-light, with 2¼-in. holders only	4.50
Zacukax	8434	0762	2-light, with 1⅝-in. holders only	3.45
Zacukay	8435	0763	3-light, with 1⅝-in. holders only	3.80
Zacukaz	8436	0764	4-light, with 1⅝-in. holders only	4.15
Zacuke	8437	0765	5-light, with 1⅝-in. holders only	4.50
Zacukeb	8438	0766	6-light, with 1⅝-in. holders only	4.85
Zacukec	8439	*072G	2-light, with opal shades	3.85
Zacuked	8440	*072V	2-light, with pagoda shades	4.95
Zacukef	8441	*072N	2-light, with X-ray shades	5.45

Twelve complete fixtures of either Style 07R or Style 07S constitute a standard package. *For additional lights substitute the desired number for Fig. "2" of Cat. No., and add to list for each additional light as follows: P, A and H, $0.25; G, $0.55; V, $1.10; N, $1.35. Standard length stem is 8 inches.

PENDANT FORMS—INTERIOR—MULTIPLE—SERIES.

Zacukeg	8442	0608	8-light, 6¾-in. dia., without reflector.	6.00
Zacukeh	8443	0610	10-light, 8¾-in. dia., without reflector.	6.60
Zacukek	8444	0612	12-light, 8¾-in. dia., without reflector.	7.20
Zacukel	8445	0615	15-light, 11¾-in. dia., without refl.	9.20
Zacukem	8446	0620	20-light, 11¾-in. dia., without refl.	11.20
Zacuken	8447	0608PM	8-light, 24-in. plain edge mirror refl.	10.50
Zacukep	8448	0610PM	10-light, 24-in. plain edge mirror refl.	11.10
Zacuker	8449	0612PM	12-light, 24-in. plain edge mirror refl.	11.70
Zacukes	8450	0615PM	15-light, 30-in. plain edge mirror refl.	16.30
Zacuket	8451	0620PM	20-light, 30-in. plain edge mirror refl.	18.30
Zacukev	8452	0608BM	8-light, 24-in. border edge mirror refl.	14.00
Zacukew	8453	0610BM	10-light, 24-in. border edge mirror refl.	14.60
Zacukex	8454	0612BM	12-light, 24-in. border edge mirror refl.	15.20
Zacukey	8455	0615BM	15-light, 30-in. border edge mirror refl.	20.20
Zacukez	8456	0620BM	20-light, 30-in. border edge mirror refl.	22.20

Six complete fixtures of Style 0600R constitute a standard package.

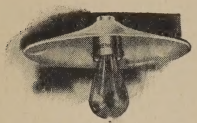
Special reflectors used are supported by base and require no holders.

Stems for Nos. 608-612 inclusive are of ⅜-inch iron pipe and ¾-inch brass casing; for Nos. 615-620 inclusive, ½-inch iron pipe and 1-inch brass casing.

Standard length stem is 12 inches. Extra lengths for Nos. 608-612 inclusive, list at 50 cents per foot; for Nos. 615-620 inclusive, add 70 cents per foot.

Standard canopy is 4¼x4 inches. Can be used for either multiple or series.

BENJAMIN CLUSTERS.



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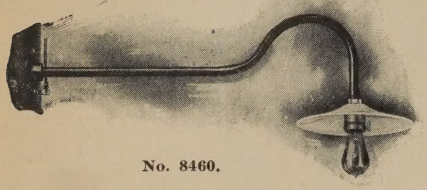

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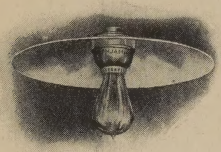

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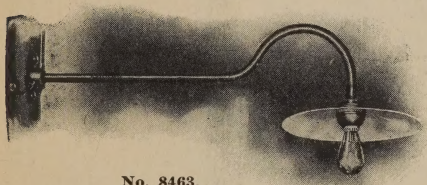
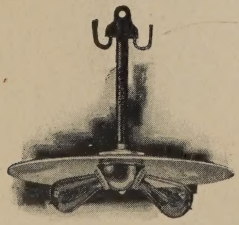


No. 8463.

No. 8465.



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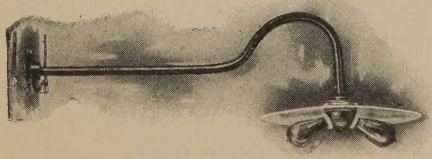


No. 8470.

WEATHERPROOF FORMS.

National Code Standard.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacuki	**8457**	4101	1-light, with 10-inch enam. steel reflector..	**$1.75**
Zacukib	**8458**	4151	1-light, with 15-inch enam. steel reflector..	**2.75**
Zacukic	**8459**	5101	1-light, complete, with 10-inch enam. steel reflector.	**2.65**
Zacukid	**8460**	5151	1-light, complete, with 15-inch enam. steel reflector.	**3.65**

Benco Streethood is a combination weatherproof aluminum socket and enameled steel reflector device. Both are tapped for ½-inch pipe and form a perfect weatherproof joint. It is especially adapted for out-door service—exposed places. Twelve fixtures of Style 41 or 51 constitute a standard package. Style 51 includes weatherproof aluminum socket; gooseneck—consisting of three feet of ½-inch iron pipe, overhanging 30 inches—pole fitting, and enameled steel reflector. Gooseneck and fitting are enameled black.

WEATHERPROOF FORMS—MULTIPLE.

National Code Standard.

acukif	**8461**	4081	1-light, with 13-inch enam. steel reflector..	**2.20**
Zacukig	**8462**	4082	2-light, with 13-inch enam. steel reflector..	**2.50**
Zacukih	**8463**	5081	1-light, with 13-inch enam. steel reflector..	**3.10**
Zacukik	**8464**	5082	2-light, with 13-inch enam. steel reflector..	**3.40**

Twelve fixtures of Style 408 or 508 constitute a standard package. Polished aluminum is standard finish for all weatherproof bodies. Style 408 includes weatherproof cluster, flange and enameled steel reflector only. Style 508 includes weatherproof cluster, gooseneck—consisting of three feet ½-inch iron pipe, overhanging 30 inches—pole fitting, and enameled steel reflector. Gooseneck and fitting are enameled black.

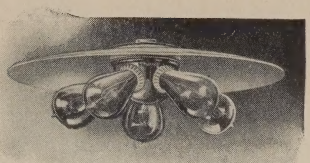
WEATHERPROOF FORMS—MULTIPLE—SERIES.

National Code Standard.

Zacukil	**8465**	4022	2-light multiple.....	**3.25**
Zacukim	**8466**	4023	3-light multiple.....	**3.50**
Zacukin	**8467**	4024	4-light multiple.....	**3.75**
Zacukip	**8468**	4022½	2-light series.....	**3.30**
Zacukir	**8469**	4023½	3-light series.....	**3.60**
Zacukis	**8470**	5022	2-light multiple.....	**4.15**
Zacukit	**8471**	5023	3-light multiple.....	**4.40**
Zacukiv	**8472**	5024	4-light multiple.....	**4.65**
Zacukiw	**8473**	5022½	2-light series.....	**4.20**
Zacukix	**8474**	5023½	3-light series.....	**4.50**
Zacukiy	**8475**	6022	2-light multiple, with suspension fitting...	**3.80**
Zacukiz	**8476**	6023	3-light multiple, with suspension fitting...	**4.05**
Zacuko	**8477**	6024	4-light multiple, with suspension fitting...	**4.30**
Zacukob	**8478**	6022½	2-light series, with suspension fitting...	**3.85**
Zacukoc	**8479**	6023½	3-light series, with suspension fitting...	**4.15**
Zacukod	**8480**	6022C	2-light multiple, with connecting block....	**4.70**
Zacukof	**8481**	6023C	3-light, multiple, with connecting block....	**4.95**
Zacukog	**8482**	6024C	4-light multiple, with connecting block....	**5.20**
Zacukoh	**8483**	6022½C	2-light series, with connecting block....	**4.75**
Zacukok	**8484**	6023½C	3-light series, with connecting block....	**5.05**
Zacukol	**8485**	6028C	Connecting block.....	**1.20**

Twelve fixtures of Styles 402, 502, 602 or 24 of No. 6028C constitute a standard package. Polished aluminum is standard finish for all weatherproof bodies.

BENJAMIN CLUSTERS.



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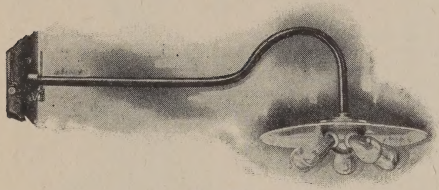

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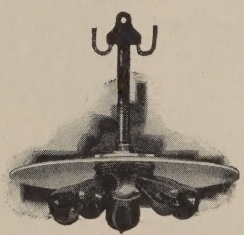

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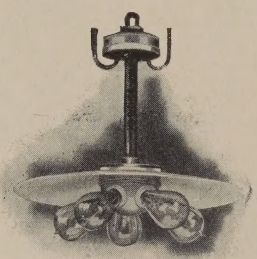

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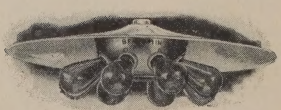

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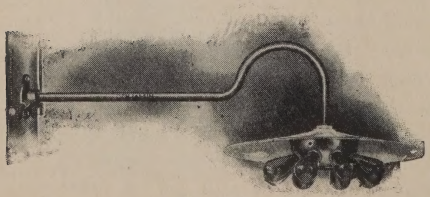


No. 8527.

WEATHERPROOF FORMS—MULTIPLE—SERIES.

National Code Standard.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacukom	**8486**	4012	2-light multiple.....	**$3.60**
Zacukon	**8487**	4013	3-light multiple.....	**3.85**
Zacukop	**8488**	4014	4-light multiple.....	**4.10**
Zacukor	**8489**	4015	5-light multiple.....	**4.35**
Zacukos	**8490**	4016	6-light multiple.....	**4.60**
Zacukot	**8491**	4012½	2-light series.....	**3.65**
Zacukov	**8492**	4013½	3-light series.....	**3.95**
Zacukow	**8493**	4014½	4-light series.....	**4.20**
Zacukox	**8494**	4015½	5-light series.....	**4.45**
Zacukoy	**8495**	5012	2-light multiple.....	**4.50**
Zacukoz	**8496**	5013	3-light multiple.....	**4.75**
Zacuku	**8497**	5014	4-light multiple.....	**5.00**
Zacukub	**8498**	5015	5-light multiple.....	**5.25**
Zacukuc	**8499**	5016	6-light multiple.....	**5.50**
Zacukud	**8500**	5012½	2-light series.....	**4.55**
Zacukuf	**8501**	5013½	3-light series.....	**4.85**
Zacukug	**8502**	5014½	4-light series.....	**5.10**
Zacukuh	**8503**	5015½	5-light series.....	**5.35**

Twelve fixtures of Style 401 or 501 constitute a standard package. Polished aluminum is standard finish for all weatherproof bodies. Style 401 includes weatherproof cluster, flange, enameled steel reflector only; Style 501 includes weatherproof cluster, gooseneck—consisting of three feet ½-inch iron pipe, overhanging 30 inches—pole fitting, and enameled steel reflector.

Multiple, with Suspension Fitting.

Zacukuk	**8504**	6012	2-light	**4.15**
Zacukul	**8505**	6013	3-light	**4.40**
Zacukum	**8506**	6014	4-light	**4.65**
Zacukun	**8507**	6015	5-light	**4.90**
Zacukup	**8508**	6016	6-light	**5.15**

Series, with Suspension Fitting.

Zacukur	**8509**	6012½	2-light	**4.20**
Zacukus	**8510**	6013½	3-light	**4.50**
Zacukut	**8511**	6014½	4-light	**4.75**
Zacukuv	**8512**	6015½	5-light	**5.00**

Multiple, with Connecting Block.

Zacukuw	**8513**	6012C	2-light	**5.05**
Zacukux	**8514**	6013C	3-light	**5.30**
Zacukuy	**8515**	6014C	4-light	**5.55**
Zacukuz	**8516**	6015C	5-light	**5.80**
Zacula	**8517**	6016C	6-light	**6.05**

Series, with Connecting Block.

Zaculab	**8518**	6012½C	2-light	**5.10**
Zaculac	**8519**	6013½C	3-light	**5.40**
Zaculad	**8520**	6014½C	4-light	**5.65**
Zaculaf	**8521**	6015½C	5-light	**5.90**

Twelve fixtures of Style 601 or 601C constitute a standard package. Polished aluminum is standard finish for all weatherproof bodies. Fixture includes weatherproof cluster, flange, enameled steel reflector, standard length 8-inch stem, and suspension fitting or connecting block.

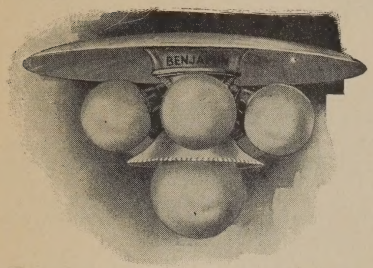
WEATHERPROOF FORMS—MULTIPLE—SERIES.

Zaculag	**8522**	4608	8-light, 6¾-in. dia., 20-in. enam. steel reflector.	**8.25**
Zaculah	**8523**	4610	10-light, 8¾-in. dia., 20-in. enam. steel reflector.	**8.85**
Zaculak	**8524**	4612	12-light, 8¾-in. dia., 20-in. enam. steel reflector.	**9.45**
Zaculal	**8525**	4615	15-light, 11¾-in. dia., 24-in. enam. steel reflector.	**12.25**
Zaculam	**8526**	4620	20-light, 11¾-in. dia., 24-in. enam. steel reflector.	**14.25**
Zaculan	**8527**	5608	8-light, with 20-in. enam. steel reflector.	**9.15**
Zaculap	**8528**	5610	10-light, with 20-in. enam. steel reflector.	**9.75**
Zacular	**8529**	5612	12-light, with 20-in. enam. steel reflector.	**10.35**
Zaculas	**8530**	5615	15-light, with 24-in. enam. steel reflector.	**13.15**
Zaculat	**8531**	5620	20-light, with 24-in. enam. steel reflector.	**15.15**

Six fixtures of Style 4600 or 5600 constitute a standard package. Polished aluminum is standard finish for all weatherproof bodies. Style 400 includes weatherproof cluster, and casting tapped for ½-in. iron pipe, with enameled steel reflector only. Style 5608 includes weatherproof cluster, gooseneck—consisting of three feet ½-in. iron pipe, overhanging 30 inches—pole fitting and enameled steel reflector. Bodies ranging from 8-12 light can be furnished with additional center lamp opening, for which add 30 cents to list. In ordering affix letter "K" to catalogue number. Receptacles are so arranged that either series or parallel wiring may be used.

BENJAMIN CLUSTERS.

ARC-BURST.



Style C—Ceiling Form Opal Reflector, 18 in., depth 11 in.

National Code Standard.

STYLE "C."

Style "C" is essentially a low ceiling fixture, particularly adapted to places where it is not desirable to use stem. It is 11 inches deep.

Twelve fixtures of Style "C" complete, with or without lamps, constitute a standard package.

Cluster body is finished in frosted aluminum, thus harmonizing with other white parts.

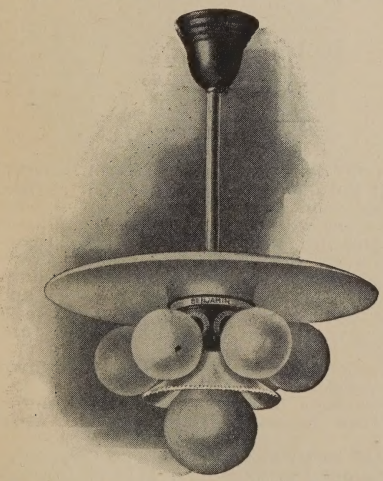
Special shade holders permit removal of reflectors without disturbing electrical connections.

Prices include ceiling block. Frosted spherical type Gem Filament Lamps—one 50 C. P. for center opening, and 25 C. P. lamps for outer openings—are furnished. Fixture is not wired.

Code Word.	List No.	Mfr. No.	No. of Lights.	Total Watts.	Nominal C. P.	Less Lamps Only.	With Lamps 90–130 V.
Zaculav	8532	C43	3	200	100	$6.05	$9.10
Zaculaw	8533	C44	4	250	125	6.30	10.30
Zaculax	8534	C45	5	300	150	6.55	11.50
Zaculay	8535	C46	6	350	175	6.80	12.70
Zaculaz	8536	C47	7	400	200	7.05	13.90
With 3-Wire Connection—"Turn-down Feature" designated by Letter "Y."							
Zacule	8537	C43Y	3	200	100	6.35	9.40
Zaculeb	8538	C44Y	4	250	125	6.60	10.60
Zaculec	8539	C45Y	5	300	150	6.85	11.80
Zaculed	8540	C46Y	6	350	175	7.10	13.00
Zaculef	8541	C47Y	7	400	200	7.35	14.20

		Lamps Only.	Net Price. Standard Package.	Net Price. Broken Package.
Zaculeg	8542	No. 1— 50 Watt Lamp	$0.36	.40
Zaculeh	8543	No. 2—100 Watt Lamp	.54	.60

In ordering fixture complete with lamps, specify voltage.



Style D—Pendant Form Opal Reflector, 18 in., depth 25 in.

STYLE "D."

Style "D" is a fixture form measuring 25 inches over all. For lighting stores, halls and public buildings it is a most popular device.

Twelve Style "D" complete, with or without lamps, constitute a standard package.

Cluster body is finished in frosted aluminum, thus harmonizing with other white parts.

Holders permit removal of reflectors without disturbing electrical connections.

Frosted spherical type Gem Filament Lamps—one 50 C. P. for center opening, and 25 C. P. for outer openings—are furnished. Fixture is wired, furnished with crowfoot, ready to hang.

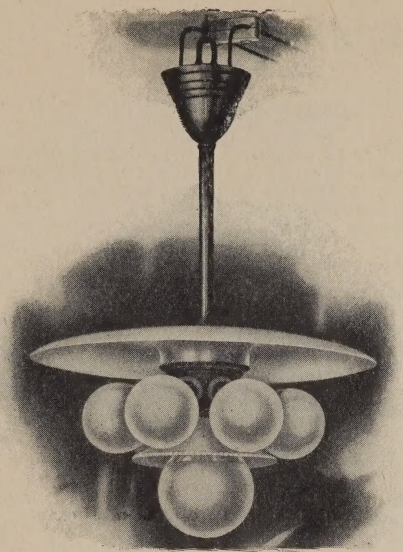
Extra length stems including wire list at 60 cents per foot.

Zaculek	8544	D43	3	200	100	7.55	10.60
Zaculel	8545	D44	4	250	125	7.80	11.80
Zaculem	8546	D45	5	300	150	8.05	13.00
Zaculen	8547	D46	6	350	175	8.30	14.20
Zaculep	8548	D47	7	400	200	8.55	15.40
With 3-Wire Connection—"Turn-down Feature" designated by Letter "Y."							
Zaculer	8549	D43Y	3	200	100	7.95	11.00
Zacules	8550	D44Y	4	250	125	8.20	12.20
Zaculet	8551	D45Y	5	300	150	8.45	13.40
Zaculev	8552	D46Y	6	350	175	8.70	14.60
Zaculew	8553	D47Y	7	400	200	8.95	15.80

BENJAMIN CLUSTERS.

ARC-BURST.

National Code Standard.



Style E—Suspension Form Opal Reflector 18 Inches, Depth 28 Inches.

STYLE "E."

Style "E" is a suspension form and is installed as the ordinary arc without additional wiring. Connections are made on under side of connecting block, access to which is gained by lowering canopy. Can be suspended any height.

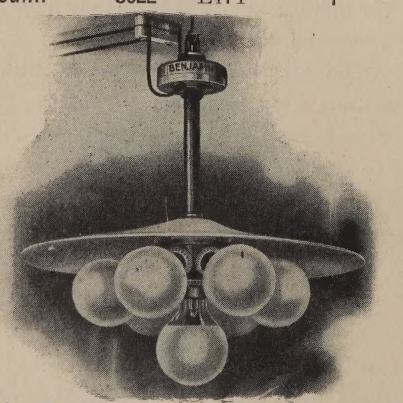
Twelve Style "E" complete, with or without lamps, constitute a standard package.

Cluster body is finished in frosted aluminum, harmonizing with other white parts.

Holders permit removal of reflectors without disturbing electrical connections.

Frosted spherical type Gem Filament Lamps—one 50 C. P. for center opening, and 25 C. P. for outer openings—are furnished. Fixture is wired ready to hang.

Code Word.	List No.	Mfr. No.	No. of Lights.	Total Watts.	Nominal C. P.	Less Lamps Only.	With Lamps 90–130 V.
Zaculex	8613	E43	3	200	100	$8.45	$11.50
Zaculey	8614	E44	4	250	125	8.70	12.70
Zaculez	8615	E45	5	300	150	8.95	13.90
Zaculi	8616	E46	6	350	175	9.20	15.10
Zaculib	8617	E47	7	400	200	9.45	16.30
With 3-Wire Connection—"Turn-down Feature" Designated by Letter "Y."							
Zaculic	8618	E43Y	3	200	100	8.85	11.90
Zaculid	8619	E44Y	4	250	125	9.10	13.10
Zaculif	8620	E45Y	5	300	150	9.35	14.30
Zaculig	8621	E46Y	6	350	175	9.60	15.50
Zaculih	8622	E47Y	7	400	200	9.85	16.70



Style F—Weatherproof Form Enameled Steel Reflector—18 Inches, Depth 20 Inches.

STYLE "F."

Style "F" is a weatherproof form intended to meet the demands of an out-door service. Threaded connections between stem and reflector form weatherproof joint. Leading-in wires pass through opening in porcelain connecting block, are attached to binding screws on upper surface, and are protected by aluminum cap held in place by lock-nut and washer, making weatherproof joint. It is 20 inches over all and can be suspended any height.

Twelve Style "F" complete, with or without lamps, constitute a standard package.

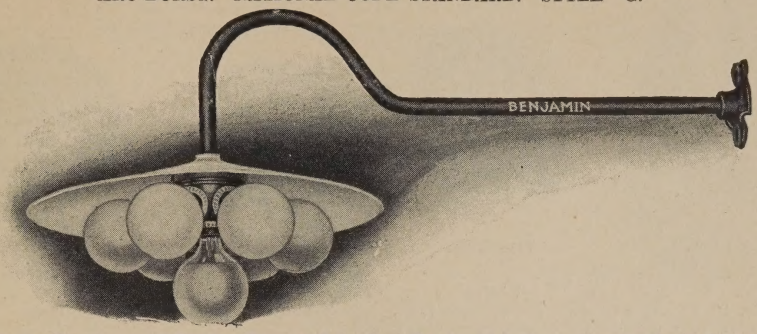
Cluster body is finished in frosted aluminum, thus harmonizing with other white parts.

Frosted 25 C. P. spherical type Gem Filament Lamps are furnished. Fixture is wired ready to hang.

Zaculik	8623	F43	3	150	75	7.05	9.70
Zaculil	8624	F44	4	200	100	7.30	10.90
Zaculim	8625	F45	5	250	125	7.55	12.10
Zaculin	8626	F46	6	300	150	7.80	13.30
Zaculip	8627	F47	7	350	175	8.05	14.50
With 3-Wire Connection—"Turn-down Feature" Designated by Letter "Y."							
Zaculir	8628	F43Y	3	150	75	7.45	10.10
Zaculis	8629	F44Y	4	200	100	7.70	11.30
Zaculit	8630	F45Y	5	250	125	7.95	12.50
Zaculiv	8631	F46Y	6	300	150	8.20	13.70
Zaculiw	8632	F47Y	7	350	175	8.45	14.90

BENJAMIN CLUSTERS.

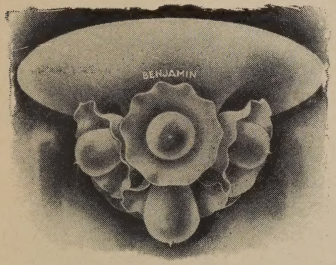
ARC-BURST. NATIONAL CODE STANDARD. STYLE "G."



Style G—Weatherproof Form. Enameled Steel Reflector, 18 Inches. Gooseneck, 30 Inches.

Style G is a weatherproof form with 30-inch gooseneck and pole fitting. Twelve Style G complete, with or without lamps, constitute a standard package. Cluster body is finished in frosted aluminum. Frosted 25 C. P. spherical type Gem Filament Lamps are furnished unless clear are specified. Fixture is not wired. For fixture less gooseneck and pole fitting deduct 90 cents from list price.

Code Word.	List No.	Mfr. No.	No. of Lights.	Total Watts.	Nominal C. P.	Less Lamps Only.	With Lamps 90–130 V.
Zaculix	**8633**	G43	3	150	75	**$6.35**	**$9.00**
Zaculiy	**8634**	G44	4	200	100	**6.60**	**10.20**
Zaculiz	**8635**	G45	5	250	125	**6.85**	**11.40**
Zaculo	**8636**	G46	6	300	150	**7.10**	**12.60**
Zaculob	**8637**	G47	7	350	175	**7.35**	**13.80**
With 3-Wire Connection—"Turn-down Feature" designated by letter "Y."							
Zaculoc	**8638**	G43Y	3	150	75	**6.65**	**9.30**
Zaculod	**8639**	G44Y	4	200	100	**6.90**	**10.50**
Zaculof	**8640**	G45Y	5	250	125	**7.15**	**11.70**
Zaculog	**8641**	G46Y	6	300	150	**7.40**	**12.90**
Zaculoh	**8642**	G47Y	7	350	175	**7.65**	**14.10**

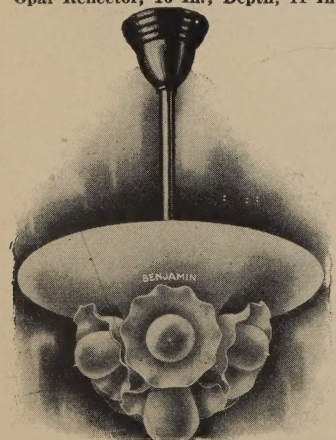


Style C3—Ceiling Form. Opal Reflector, 16 In.; Depth, 11 In.

"ANTI-NIGHT." NATIONAL CODE STANDARD.

Style C3 is essentially a low ceiling fixture particularly adapted to places where it is not desirable to use stem. It is 11 inches deep. It furnishes a strong, steady and pleasing light; is highly ornamental in design, and as regards both first cost and the cost of operation is an extremely economical device. Twelve Style C3 constitute a standard package. Cluster body is finished in polished aluminum. Fixture from reflector to tip of bottom lamp is snow white—all shadows are eliminated. Special shade holders permit removal of reflectors without disturbing electrical connections. Prices include ceiling block. 50-watt frosted Gem Lamps are recommended. These can be furnished at a net price of 25 cents each. Fixture is not wired.

			No. Lights.	Complete, Less Lamps Only.
Zaculok	**8643**	D33	3	**7.10**
Zaculol	**8644**	D34	4	**7.65**
Zaculom	**8645**	D35	5	**8.20**
Zaculon	**8646**	D36	6	**8.75**
With 3-Wire Connection—"Turn-Down Feature" Designated by Letter "Y."				
Zaculop	**8647**	D33Y	3	**7.50**
Zaculor	**8648**	D34Y	4	**8.05**
Zaculos	**8649**	D35Y	5	**8.60**



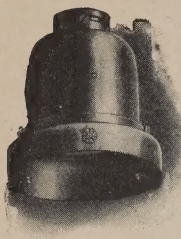
Style D3—Pendant Form. Opal Reflector, 16 In.; Depth, 25 In.

Style D3 is a fixture form measuring 25 inches over all. It is especially adapted for lighting stores, offices, halls and public buildings where a strong, steady and pleasing light is desired. It is highly ornamental in design, and as regards both first cost and cost of operation is an extremely economical device. Twelve Style D3 constitute a standard package. Cluster body is finished in polished aluminum. Fixture from reflector to tip of bottom lamp is snow white—all shadows are eliminated. Special shade holders permit removal of reflectors without disturbing electrical connections. Prices include crowfoot. 50-watt frosted Gem Lamps are recommended. These can be furnished at a net price of 25 cents each. Fixture is wired ready to hang. Extra length stems, including wire, list at 60 cents per foot.

Zaculot	**8650**	D33	3	**7.10**
Zaculov	**8651**	D34	4	**7.65**
Zaculow	**8652**	D35	5	**8.20**
Zaculox	**8652**	D36	6	**8.75**
With 3-Wire Connection—"Turn-Down Feature" Designated by Letter "Y."				
Zaculoy	**8654**	D33Y	3	**7.50**
Zaculoz	**8655**	D34Y	4	**8.05**
Zaculu	**8656**	D35Y	5	**8.60**
Zaculub	**8657**	D36Y	6	**9.15**

BENJAMIN SPECIALTIES.

SOCKETS—WALL BRACKETS



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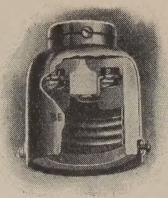

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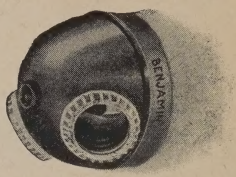


No. 8318.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zaculuc	8307	81	1-Light	$0.60

No. 81 is keyless wall socket used for either in-door or out-door lighting.

Thirty-six constitute a standard package.

Zaculud	8308	4200	Benco with alum. shell tapped ½-in.	.75
Zaculuf	8309	4201	Benco with alum. shell tapped ⅜-in.	.75
Zaculug	8310	4202	Benco with brass shell tapped ½-in.	.75
Zaculuh	8311	4203	Benco with brass shell tapped ⅜-in.	.75
Zaculuk	8312	4205	With alum. shell tapped ½-in., 2¼-in. holder	.95
Zaculul	8313	4206	With alum. shell tapped ⅜-in., 2¼-in. holder	.95
Zaculum	8314	4207	With brass shell tapped ½-in., 2¼-in. holder	.95
Zaculun	8315	4208	With brass shell tapped ⅜-in., 2¼-in. holder	.95
Zaculup	8316	*4204	⅜-in. x 5/16-in. socket bushing	.04

The Benco is National Code Standard. Shell tapped for ½-inch or ⅜-inch iron pipe or conduit. Binding screws accessible from the front.

*Socket bushing can be used with any Benco tapped ⅜-inch size.

Fifty constitute a standard package.

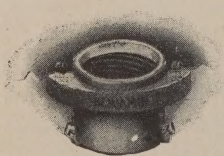
Zaculur	8317	18	1-Light multiple bracket only	.60
Zaculus	8318	19	2-Light multiple bracket only	.90
Zaculut	8319	19½	2-Light series	.95

Thirty-six constitute a standard package.

Zaculuv	8320	1845	1-Light, with 2¼-in. shade holder	.70
Zaculuw	8321	1945	2-Light, with 2¼-in. shade holder	1.10
Zaculux	8322	1846	1-Light, with 1⅝-in. shade holder	.70
Zaculuy	8323	1946	2-Light, with 1⅝-in. shade holder	1.10
Zaculuz	8324	18G	1-Light bracket with opal shade	.90
Zacuma	8325	19G	2-Light bracket with opal shade	1.50

Twelve constitute a standard package.

SIGN RECEPTACLES—OUTLET BOX RECEPTACLES.



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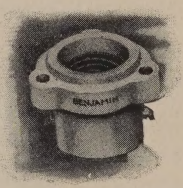

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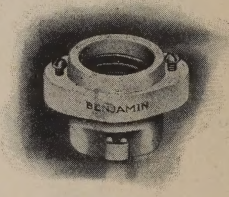


No. 8328.

Zacumab	8326	6	Sign receptacle, with 2 bolts	.20
Zacumac	8327	6S	Sign receptacle, with 3 bolts	.20

No. 6 and 6S receptacles are designed for metal sign work. The former is supported by two bolts, the latter by three, enabling socket to be placed in any of three positions to facilitate wiring. Both are National Code Standard. Are serviceable for border or foot-lights, etc.

Two hundred and fifty constitute a standard package.

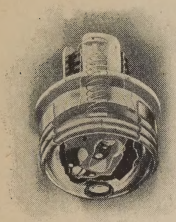
Zacumad	8328	6B	Outlet box receptacle with bolts	.20
Zacumaf	8329	3623	Steel plate only for 3-in. Bossert Box	.10
Zacumag	8330	3624	Steel plate only for 4-in. Bossert box	.15
Zacumah	8331	3623B	Plate with polished brass cover, 3-in. Bossert box	.20
Zacumak	8332	3624B	Plate with polished brass cover, 4-in. Bossert box	.30
Zacumal	8333	36235	3-in. plate with polished brass cover, 2¼-in. holder	.35
Zacumam	8334	36236	3-in. plate with polished brass cover, 1⅝-in. holder	.35
Zacuman	8335	36245	4-in. plate with polished brass cover, 2¼-in. holder	.45
Zacumap	8336	36246	4-in. plate with polished brass cover, 1⅝-in. holder	.45

No. 6B is designed especially for outlet boxes. Contacts do not project beyond walls of receptacle, therefore do not readily come in contact with metal parts of box or projecting parts of conduit. Wires are easily spread around base, making slack wire unnecessary. Steel plates enameled black. Where polished brass finish is required brass cover is also necessary. Shade holder is attached to and forms a part of brass cover.

One hundred constitute a standard package.

BENJAMIN SPECIALTIES.

WIZARD ATTACHMENT PLUGS—CANDELABRA CLUSTER PLUGS.



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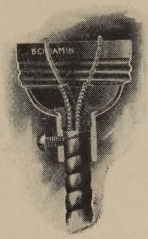


No. 8338.

No. 8342.

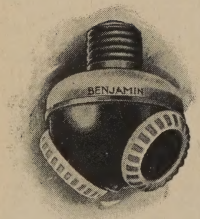
Code Word.	List No.	Mfr. No.		List Price, Each.
Zacumar	8337	901	Wizard Attachment Plug only	$0.40
Zacumas	8338	902	Wizard Attachment Plug, with shank	.50

Twisting of cord unnecessary. Is inserted without force by direct thrust, requiring only slight rotation to insure contact. Automatically locks itself. Is instantly removed without rotating. Will take either standard or re-enforced cord. Cap easily removed for making connections, and has ample room inside for tying knot. Can be furnished with shank for attaching Greenfield cord. One hundred constitute a standard package.

Zacumat	8339	293	3-Light Cluster Plug	1.20
Zacumav	8340	294	4-Light Cluster Plug	1.30
Zacumaw	8341	295	5-Light Cluster Plug	1.40
Zacumax	8342	296	6-Light Cluster Plug	1.50

Is intended for use with candelabra lamps in parallel. Is suitable for either 110 volt lamps or lamps of lower voltage, such as battery lamps. Can be used as cluster for electric automobiles with standard Edison base receptacle. Lends itself for decorative purposes to highly ornamental effects. Put up six in a box. Maximum wattage no more than allowable for regular socket. Six full boxes constitute a standard package.

RECEPTACLE PLUGS AND PLUG TWIN SOCKETS.



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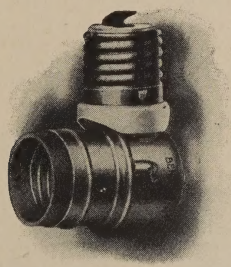

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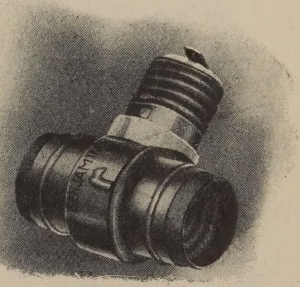


No. 8348.

Zacumay	8343	92	2-Light Multiple	1.00
Zacumaz	8344	93	3-Light Multiple	1.30
Zacume	8345	94	4-Light Multiple	1,60
Zacumeb	8346	92½	2-Light Series	1.10

Fits any Edison base socket. Receives any combination of lamps and attachment plugs. Converts one light pendant into cluster.

Six full boxes constitute a standard package.

Zacumel	8347	941	1-Light Plug Twin Socket, polished brass	.60
Zacumed	8348	942	2-Light Plug Twin Socket, polished brass	.90

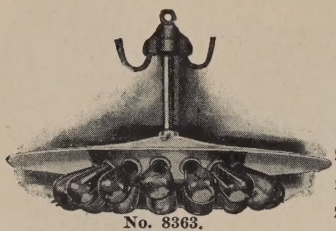
Both plug and socket ends made in Edison base only. By use of device axis of lamps is changed 90 degrees, and can be turned to any desired position in a plane at right angles with supporting socket, thus increasing effectiveness of light distribution. For nickel plating add 5 cents to list. Twenty-five constitute a standard package.

Zacumef	8349	94271	1-Light, with Parabolic Shades	1.30
Zacumeg	8350	94272	2-Light, with Parabolic Shades	2.30

With parabolic shades allowing free rotation on socket, light may be concentrated in any desired direction. For nickel plating add 5 cents to list.

Twenty-five constitute a standard package.

BENJAMIN CLUSTERS.



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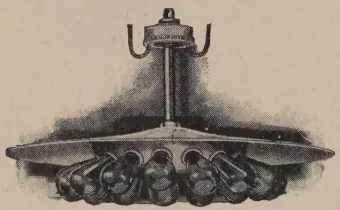

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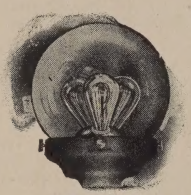

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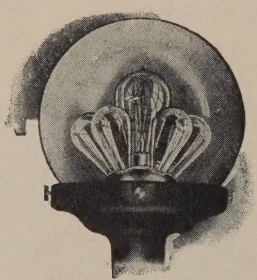

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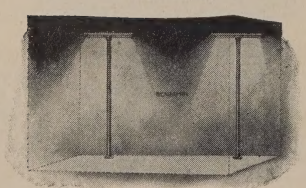

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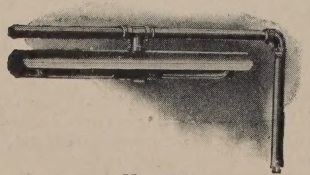


No. 8353.

WEATHERPROOF FORMS—MULTIPLE—SERIES.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacumeh	8360	6608	8-light, 6¾-in. dia., 20-in. enam. steel reflector	$8.80
Zacumek	8361	6610	10-light, 8¾-in. dia., 20-in. enam. steel reflector	9.40
Zacumel	8362	6612	12-light, 8¾-in. dia., 20-in. enam. steel reflector	10.00
Zacumem	8363	6615	15-light, 11¾-in. dia., 24-in. enam. steel reflector	12.80
Zacumen	8364	6620	20-light, 11¾-in. dia., 24-in. enam. steel reflector	14.80
Zacumep	8365	6608C	8-light, 6¾-in. dia., 20-in. enam. steel reflector	9.70
Zacumer	8366	6610C	10-light, 8¾-in. dia., 20-in. enam. steel reflector	10.30
Zacumes	8367	6612C	12-light, 8¾-in. dia., 20-in. enam. steel reflector	10.90
Zacumet	8368	6615C	15-light, 11¾-in. dia., 24-in. enam. steel reflector	13.70
Zacumev	8369	6620C	20-light, 11¾-in. dia., 24-in. enam. steel reflector	15.70

Six fixtures of Style 6600 or 6600C constitute a standard package. Polished aluminum is standard finish for all weatherproof bodies. Fixture includes weatherproof cluster, casting tapped for ½-inch iron pipe, standard length 8-inch stem, and suspension fitting or connecting block. Receptacles are so arranged that either series or parallel wiring may be used. Bodies ranging from 8-12 lights can be furnished with additional center lamp opening, for which add 30 cents to list. In ordering affix letter "K" to catalogue number.

WEATHERPROOF FORMS—MULTIPLE.

Zacumew	8370	32B	2-light, with 8-in. C. R. I. ball only.	2.75
Zacumex	8371	33B	3-light, with 8-in. C. R. I. ball only.	3.00
Zacumey	8372	33KB	3-light, with 12-in. C. R. I. ball only.	4.55
Zacumez	8373	34KB	4-light, with 12-in. C. R. I. ball only.	4.80
Zacuni	8374	35KB	5-light, with 12-in. C. R. I. ball only.	5.05
Zacunib	8375	36KB	6-light, with 12-in. C. R. I. ball only.	5.30
Zacunic	8376	37KB	7-light, with 12-in. C. R. I. ball only.	5.55

Twelve fixtures of Style 3B or 3KB complete constitute a standard package. Polished aluminum is standard finish for all weatherproof bodies

SHOW CASE FIXTURES.

Zacunid 8377 4282 2-light, complete, not wired.... 2.80

Fixture consists of twin socket, reflector, brass stem and flange, all nickel plated. Standard height, 26 inches. Extra length stems list at 40 cents per foot. Two or more column lights may be used in same case. Reflectors rotate at will. Twelve constitute a standard package.

Zacunif	8378	4494	4-light, 4-ft. long x 3-ft. high, 2 cols.	10.00
Zacunig	8379	4694	4-light, 6-ft. long x 3-ft. high, 3 cols.	12.80
Zacunih	8351	4896	6-light, 8-ft. long x 3-ft. high, 3 cols.	17.80

Fixture consists of two or more column lights with continuous reflector extending full length of case. Reflector has nickel finish inside, dull black outside; can be rotated at will. Extra lengths list at $1.40 per foot. Give inside dimensions of case. Six constitute a standard package.

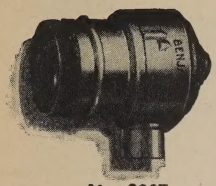
Zacunik	8352	4261	1-light socket, with T-clamp and reflector	1.70
Zacunil	8353	4262	2-light socket, with T-clamp and reflector	2.10

Special sockets with T-clamp used. Wires can be looped in the socket. Reflector can be rotated at will. Metal parts are nickel plated. Prices do not include lamps, tubing or elbows. Sockets used in above fixtures are National Code Standard. Twelve constitute a standard package.

BENJAMIN SPECIALTIES.

TWIN SOCKETS—NIPPLES—FLANGES.

National Code Standard.



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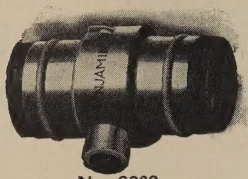


No. 8268.

No. 8275.

No. 8277.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacumim	8267	411	1-Light, polished brass, ⅛-in	$0.45
Zacumin	8268	412	2-Light, polished brass, ⅛-in	.65
Zacumip	8269	421	1-Light, nickel plated, ⅛-in	.50
Zacumir	8270	422	2-Light, nickel plated, ⅛-in	.70
Zacumis	8271	431	1-Light, polished brass, ⅜-in	.50
Zacumit	8272	432	2-Light, polished brass, ⅜-in	.70
Zacumiv	8273	441	1-Light, nickel plated, ⅜-in	.55
Zacumiw	8274	442	2-Light, nickel plated, ⅜-in	.75

Sockets especially designed with view to economy in installation for show-window or show-case work. By use of suitable shades and reflectors more complete distribution of light is secured.

Both sockets served by one pair of binding screws, access to which is easily gained by removing end of socket shell held in position by snap lock, no screws being used.

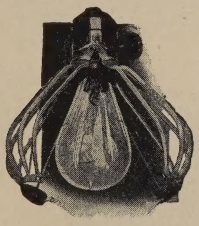
Fifty constitute a standard package.

Zacumix	8275	180	Polished brass nipple, ⅛x¾-in	.12
Zacumiy	8276	181	Nickel plated nipple, ⅛x¾-in	.15
Zacumiz	8277	194	Polished brass flange, ⅛x1¼-in	.08
Zacumo	8278	196	Nickel plated flange, ⅛x1¼-in	.10
Zacumob	8279	4791	1-Light socket complete, with polished brass nipple and flange	.65
Zacumoc	8280	4792	2-Light socket complete, with polished brass nipple and flange	.85
Zacumod	8281	4891	1-Light socket complete, with nickel plated nipple and flange	.75
Zacumof	8282	4892	2-Light socket complete, with nickel plated nipple and flange	.95

Fifty constitute a standard package.

LAMP GUARDS—CLUSTER GUARDS.

No. 8283, Closed.



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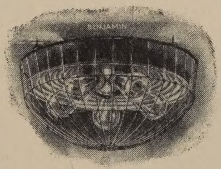

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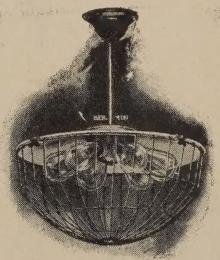


No. 8285.

Zacumog 8283 160 Steel lamp guard, 8-16 C. P. ..... .16

Guard consists of two halves pressed up from single sheet of steel. Parts hinged together and grip socket tightly, relieving lamps of strain. Resilient spring wire supports lamp centrally—prevents striking. Metal formed edgewise, radially with lamps, permitting free light distribution.

Spring steel snap lock holds halves in position. Is easily adjusted or removed.

One hundred constitute a standard package.

Zacumoh 8284 170 Cluster guard, 15-in. 1.20

Made for Benjamin Clusters only. Will take cluster with 14-inch shade. Is made of heavy tinned wire. Is strong and durable. Is attached to ceiling by means of four screw hooks. Is easily adjusted or removed.

Ten constitute a standard package.

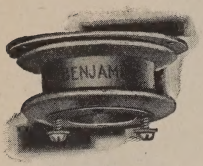
Zacumok 8285 171 Pendant cluster guard, 15-in., with clamps 1.40

Attaches to rim of special H115 and H215 steel reflectors by means of four thumb-screw clamps. Made of heavy tinned wire. Is strong and durable. Is easily adjusted or removed.

Ten constitute a standard package.

BENJAMIN SPECIALTIES.

SUB-BASES—RINGS—BUSHINGS—BLOCKS.



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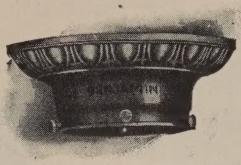


No. 8136.

No. 8140.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacumol	8134	100	Metal Sub-base complete, with Rubber Rings and Screws.	$0.60
Zacumom	8135	200	Metal Sub-base complete, with Rubber Rings and Screws.	.60
Zacumon	8136	300	Ornamental Sub-base, 3¼-in. Fitter	1.25
Zacumop	8137	303	Ornamental Sub-base, 7-in. Fitter	2.50

Sub-bases 100 and 200 are intended to be used with clusters of corresponding type body, No. 100 fitting 1, 1½, 7, and K bodies. No. 200 fits 2 and 2½ bodies. Are adapted to hold opal reflectors firmly between rubber rings, and attach directly to ceiling or wooden block.

Sub-bases 300 and 303 are ornamental in design. The former can be used with Type 8 or 2, the latter with Type 3 cluster body. Can be used with No. 81 socket for 5-inch or 6-inch ball; with Type 3 body for 8-inch ball. With Type 2 body it is adapted for the use of flat opal shade.

Twenty-four constitute a standard package.

Zacumor	8138	10	Porcelain Socket Ring	.05

Made for Benjamin Wireless Cluster and Plug Receptacle only.

Zacumos	8139	4204	Insulating Socket Bushing, ⅜x5/16-in.	.04

Can be used with Nos. 4201 and 4203 to take re-enforced cord for drop light.

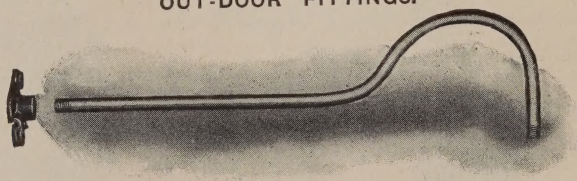
Fifty rings or bushings constitute a standard package.

Zacumot	8140	287	Oak Ceiling Block, 1½x4¾-in.	.30

Blocks are made of oak and are varnished. Backs are counterbored to cover bushings or conduit projection. Are suitable for attaching clusters of any description to plastering or metal ceiling. Are thick enough to permit cutting-out in order to span mouldings.

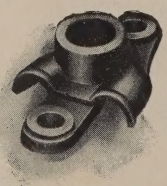
Twenty-four constitute a standard package.

OUT-DOOR FITTINGS.



No. 8146.

No. 8147.



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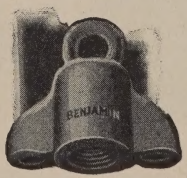


No. 8149.

No. 8145.

Zacumov	8141	3850	Flange tapped for ½-in. iron pipe	.15
Zacumow	8142	3250	Flange tapped for ½-in. iron pipe	.15
Zacumox	8143	3150	Flange tapped for ½-in. iron pipe	.20
Zacumoy	8144	3175	Flange tapped for ¾-in. iron pipe	.20

Thirty-six constitute a standard package.

Zacumoz	8145	6008	Loricated Conduit Nipple, ½-in. x 8-in.	.25
Zacumu	8146	5036	Enameled Black Iron Pipe Gooseneck, ½-in. x 8-in.	.60

Twenty-four constitute a standard package.

Zacumub	8147	5025	Pole Fitting, tapped for ½-in. iron pipe	.30
Zacumuc	8148	5026	Wall Fitting, tapped for ½-in. iron pipe	.30

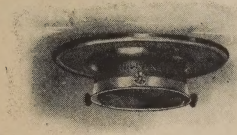
Twenty-four constitute a standard package.

Zacumud	8149	6028	W. P. Suspension Fitting, ½-in.	.30
Zacumuf	8150	6028C	Connecting Block	1.20

Twenty-four constitute a standard package.

BENJAMIN SPECIALTIES.

IN-DOOR FITTINGS.



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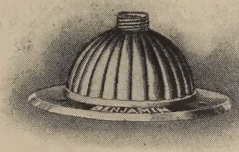

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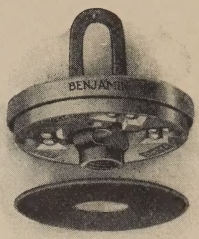
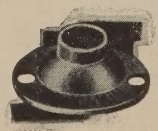


No. 8178.

Code-Word.	List No.	Mfr. No.		List Price, Each.
Zacumug	**8151**	3800	Flange tapped for ⅜-in. iron pipe	$0.10
Zacumuh	**8152**	3200	Flange tapped for ¾-in. iron pipe	.10
Zacumuk	**8153**	3100	Flange tapped for ⅜-in. iron pipe	.15
Zacumul	**8154**	3223	Flange for attaching to 3-in. Bossert box	.15
Zacumum	**8155**	3224	Flange for attaching to 4-in. Bossert box	.20
Zacumun	**8156**	3223B	Flange with polished brass cover, 3-in.	.15
Zacumup	**8157**	3224B	Flange with polished brass cover, 4-in.	.25
Zacumur	**8158**	3123	Flange for attaching to 3-in. Bossert box	.20
Zacumus	**8159**	3124	Flange for attaching to 4-in. Bossert box	.20
Zacumut	**8160**	3123B	Flange with polished brass cover, 3-in.	.25
Zacumuv	**8161**	3124B	Flange with polished brass cover, 4-in.	.25
Thirty-six constitute a standard package.				
Zacumuw	**8162**	3623	Steel plate only for 3-in. Bossert box	.10
Zacumux	**8163**	3624	Steel plate only for 4-in. Bossert box	.15
Zacumuy	**8164**	3623B	Plate with polished brass cover, 3-in.	.20
Zacumuz	**8165**	3624B	Plate with polished brass cover, 4-in.	.30
Zacuna	**8166**	36235	3-in. plate with polished brass cover, 2¼-in. holder	.35
Zacunab	**8167**	36236	3-in. plate with polished brass cover, 1⅝-in. holder	.35
Zacunac	**8168**	36245	4-in. plate with polished brass cover, 2¼-in. holder	.45
Zacunad	**8169**	36246	4-in. plate with polished brass cover, 1⅝-in. holder	.45
One hundred constitute a standard package.				
Zacumaf	**8170**	184	Ceiling flange, 3½-in. x ⅜-in., male	.40
Fifty constitute a standard package.				
Zacunag	**8171**	1950	Mal. Ir. Crowft., tapped ⅜-in. for iron pipe	.05
Zacunah	**8172**	1951	Mal. Ir. Crowft., tapped ⅜-in. for br. Stm	.05
Zacunak	**8173**	1955	Mal. Ir. Crowft., tapped ½-in. for iron pipe	.08
Zacunal	**8174**	1223	Mal. Iron Insulating Joint, ⅜x⅜-in.	.60
Zacunam	**8175**	1226	Mal. Iron Insulating Joint, ½x⅜-in.	.80
Zacunan	**8176**	1450	Mal. Iron Hickey, ⅜x⅜-in.	.15
Zacunap	**8177**	1455	Mal. Iron Hickey, ½x⅜-in.	.20
Zacunar	**8178**	3320E	Suspension Block for deep canopy	.50
Twenty-four No. 3320E constitute a standard package; 144 each of other fittings.				

CANOPIES—BRASS FITTINGS.

No. 8179.



No. 8194.

Zacunas	**8179**	3170	Polished brass, 4½x2½-in., ⅝-in. slip	.30
Zacunat	**8180**	3174	Polished brass, 4½x2½-in., ¾-in. slip	.30
Zacunav	**8181**	3320	Polished brass, 4½x4-in., ⅝-in. slip	.45
Zacunaw	**8182**	3325	Polished brass, 4½x4-in., ¾-in. slip	.45
Zacunax	**8183**	351	Polished brass tubing, threaded, ⅜x8-in.	.35
Zacunay	**8184**	352	⅜-in. iron pipe and ¾-in. polished brass casing 8-in.	.50
Zacunaz	**8185**	355	½-in. iron pipe and 1-in. polished brass casing 12-in.	.70
Additional lengths list at 35, 50 and 70 cents per foot respectively.				
Twenty-four constitute a standard package.				
Zacune	**8186**	353	Polished brass, seamless, ⅝-in., per foot	.35
Zacuneb	**8187**	354	Nickel plated, seamless, ⅝-in., per foot	.40
Zacunec	**8188**	460	Polished brass T, for ⅝-in. brass tubing	.35
Zacuned	**8189**	461	Nickel plated T for ⅝-in. brass tubing	.40
Zacunef	**8190**	470	Polished brass L, for ⅝-in. brass tubing	.30
Zacuneg	**8191**	471	Nickel plated L, for ⅝-in. brass tubing	.35
Zacuneh	**8192**	180	Polished brass, ⅛x¾-in.	.12
Zacunek	**8193**	181	Nickel plated, ⅛x¾-in.	.15
Zacunel	**8194**	194	Polished brass, female, ⅛x1¼-in.	.08
Zacunem	**8195**	196	Nickel plated, female, ⅛x1¼-in.	.10
Fifty constitute a standard package.				

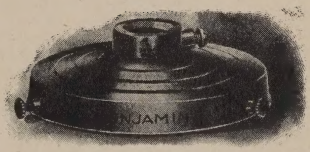
BENJAMIN SPECIALTIES.

POLISHED BRASS SHADE HOLDERS.

No. 8104.

No. 8106.

No. 8107.



No. 8109.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacunen	8104	2450	Shade holder, 2¼-in.	$0.12
Zacunep	8105	2455	Shade holder, 3¼-in.	.20
Zacuner	8106	2460	Shade holder, 1⅝-in.	.12

Special shade holders made for Benjamin Wireless Clusters only are held in position by insulating socket ring.

One hundred and forty-four constitute a standard package.

Zacunes	8107	2470	Shade holder, 2¼-in., ⅝-in. slip.	.25
Zacunet	8108	2475	Shade holder, 2¼-in., ¾-in. slip.	.25
Zacunev	8109	2490	Shade holder, 3¼-in., ⅝-in. slip.	.35
Zacunew	8110	2495	Shade holder, 3¼-in., ¾-in. slip.	.35

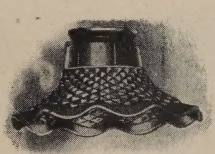
Shade holders adapted to support shade with 2½-inch or 3¼-inch fitter. Are made in both ⅝-inch and ¾-inch slip.

One hundred and forty-four constitute a standard package.

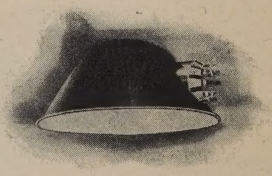
SHADES.

No. 8111.

No. 8112.



No. 8113.



No. 8117.

Zacunex	8111	G2255	Opal shade, 2¼x5½-in.	.20
Zacuney	8112	V1505	Pagoda shade, 1¾x5-in.	.75
Zacunez	8113	N2256	X-Ray shade, 2¼x6-in.	1.00

One hundred opal, 120 pagoda, 60 X-Ray shades constitute a standard package.

Zacuni	8114	272	Twin half shade, nickel plated.	1.00
Zacunib	8115	282	Twin half shade, nickel plated with opening for stem.	1.00

A nickel plated half shade especially adapted for use with Benjamin twin socket or twin socket plug for show case and window lighting.

Fifty constitute a standard package.

Zacunic	8116	21	Half shade, nickel plated.	.80
Zacunid	8117	27	Parabolic half shade, frosted aluminum.	.70

Fifty constitute a standard package.

BENJAMIN REFLECTORS.

No. 8715.

No. 8718.

No. 8721.

No. 8724.

This Group Requires no Shade Holder.

No. 8727.

No. 8732.

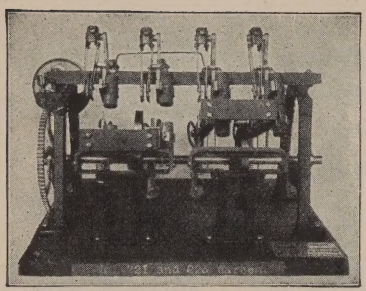
No. 8734.

No. 8736.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zacunif	8714	T812	Tin reflector, 12-in., for type 8 body	$0.50
Zacunig	8715	T114	Tin reflector, 14-in., for type 1, 7, or K body	.60
Zacunih	8716	T214	Tin reflector, 14-in., for type 2 body	.60
Zacunik	8717	M812	Mirror reflector, 12-in., for type 8 body	1.20
Zacunil	8718	M114	Mirror reflector, 14-in., for type 1, 7, or K body	1.50
Zacunim	8719	M214	Mirror reflector, 14-in., for type 2 body	1.50
Zacunin	8720	A812	Alum. reflector, 12-in., for type 8 body	1.30
Zacunip	8721	A114	Alum. reflector, 14-in., for type 1, 7, or K body	1.60
Zacunir	8722	A214	Alum. reflector, 14-in., for type 2 body	1.60
Zacunis	8723	H813	Enam. steel reflector, 13-in., for type 8 body	1.40
Zacunit	8724	H115	Enam. steel reflector, 15-in., for type 1, 7, or K body	1.80
Zacuniv	8725	H215	Enam. steel reflector, 15-in., for type 2 body	1.80
Zacuniw	8726	H10	Enam. steel reflector, 10-in., tapped ½-in	1.00
Zacunix	8727	H15	Enam. steel reflector, 15-in., tapped ½-in	2.00
Zacuniy	8728	H18	Enam. steel reflector, 18-in., tapped ½-in	2.50
Zacuniz	8729	H20	Enam. steel reflector, 20-in., tapped ½-in	3.00
Zacuno	8730	H24	Enam. steel reflector, 24-in., tapped ½-in	4.00
Zacunob	8731	H510	Enam. steel reflector, 10-in., 2¼-in. fitter	1.00
Zacunoc	8732	H515	Enam. steel reflector, 15-in., 3¼-in. fitter	2.00
Zacunod	8733	P512	Opal reflector, 12-in. x 2¼-in. fitter	.50
Zacunof	8734	P514	Opal reflector, 14-in. x 3¼-in. fitter	.60
Zacunog	8735	P516	Opal reflector, 16-in. x 3¼-in. fitter	.90
Zacunoh	8736	X514	X-Ray reflector, 14-in. x 3¼-in. fitter	2.00

Twenty-four constitute a standard package.

DULL'S FLASHERS.



DOUBLE POLE CARBON.

For giving the flashing and changeable effect to electric signs and displays. Especially adapted for heavy loads, such as flashing a sign on and off as a whole or on alternate side. Breaks the current on carbon points. A high grade machine; lasts indefinitely and never gives trouble. It is cut into the mains and does not require each small circuit to be run to the flasher. Will run with the smallest of fan motors and requires no attention other than oiling once a week.

15 AMPERE, TWO WIRE.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zadirar	29076	121	1 switch.....	$25.00
Zadiras	29077	221	2 switch.....	32.00
Zadirat	29078	321	3 switch.....	39.00
Zadirav	29079	421	4 switch.....	46.00
Zadiraw	29080	521	5 switch.....	53.00

30 AMPERE, TWO WIRE.

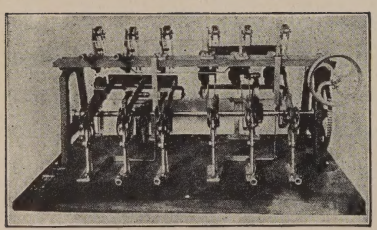
Zadirax	29081	123	1 switch.....	30.00
Zadiray	29082	223	2 switch.....	39.00
Zadiraz	29083	323	3 switch.....	48.00
Zadire	29084	423	4 switch.....	57.00
Zadireb	29085	523	5 switch.....	66.00

45 AMPERE, TWO OR THREE WIRE.

Zadirec	29086	131	1 switch.....	35.00
Zadired	29087	231	2 switch.....	46.00
Zadiref	29088	331	3 switch.....	57.00
Zadireg	29089	431	4 switch.....	68.00
Zadireh	29090	531	5 switch.....	79.00

60 AMPERE, TWO OR THREE WIRE.

Zadirek	29091	133	1 switch.....	40.00
Zadirel	29092	233	2 switch.....	53.00
Zadirem	29093	333	3 switch.....	66.00
Zadiren	29094	433	4 switch.....	79.00
Zadirep	29095	533	5 switch.....	97.00



SERIES CARBON.

Capacity, from 50 Amperes up.

The only machine known that will break a load in any form over 50 amperes. Others claim to be able to do so on an ordinary switch, but this is absurd. In order to break a heavier load than our Double Pole Carbon type it is necessary to use this type. It breaks the line in series, i. e., it breaks it in three or more places at once, making it necessary for the current to jump that many air gaps in order to hold an arc.

TWO WIRE SYSTEM.

Zadirer	29096	50 ampere, 1 switch.....	40 00
Zadires	29097	50 ampere, 2 switch.....	53.00
Zadiret	29098	50 ampere, 3 switch.....	66.00
Zadirev	29099	100 ampere, 1 switch.....	45.00
Zadirew	29100	100 ampere, 2 switch.....	60.00
Zadirex	29101	100 ampere, 3 switch.....	75.00

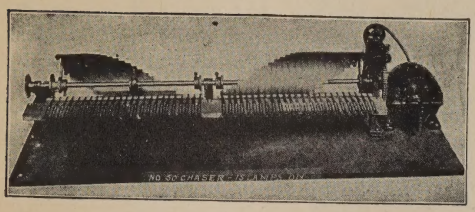
THREE WIRE SYSTEM.

Zadirey	29102	100 ampere, 1 switch.....	50.00
Zadirez	29103	100 ampere, 2 switch.....	70.00
Zadiri	29104	100 ampere, 3 switch.....	90.00
Zadirib	29105	200 ampere, 1 switch.....	58.00
Zadiric	29106	200 ampere, 2 switch.....	85.00
Zadirid	29107	200 ampere, 3 switch.....	110.00

We make special flashes of every kind for every purpose where flashing or revolving lights are required. Illusion discs for opticians in many forms, combination carbon and script machines, reducing gears for mechanical displays from 10 to 60 pounds, pull revolving hubs, stars, chromatic effects, etc. Designs and prices furnished on request.

List prices do not include motors.

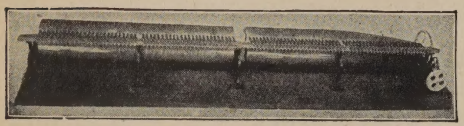
DULL'S FLASHERS.



CRAWLING CHASERS.

Used for "crawling snakes," "jumping rabbits," etc., wherein one apparently animated object chases another around the border of a sign. About 8 or 10 circuits are lighted at one time. Their capacity is limited to 2 amperes per circuit.

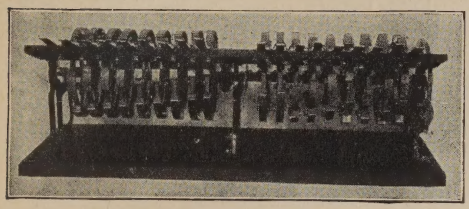
Code Word.	List No.		List Price.
Zadirif	29108	20 circuits.....	$40.00
Zadirig	29109	Additional circuits	1.00



SCRIPT BREAKERS.

For flashing a sign or display one lamp at a time. In the case of a script sign each lamp is lighted after another in rapid succession, giving the appearance of an invisible hand writing out the sign. Made in sizes from 25 to 500 circuits.

Prices on application.



FLAG TYPE.

For giving the waving effect to electric flags. Not a short, mechanical or jerky motion, but an actual reproduction of a perfect waving flag. Built in all sizes and wiring. Diagrams furnished on request.

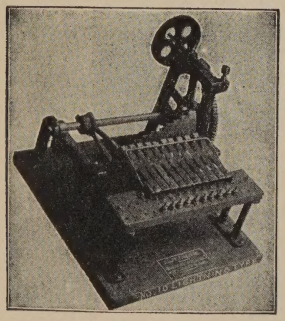
Zadirih	29110	No. 10.....	35.00
Zadirik	29111	Additional circuits	2.00

LIGHTNING TYPE.

Used for producing a "streak of lightning" or any similar work where the lights are intended to literally "fly" across a display. They can be run at a speed up to fifty revolutions per minute, which is as fast as an ordinary incandescent lamp will light up and extinguish.

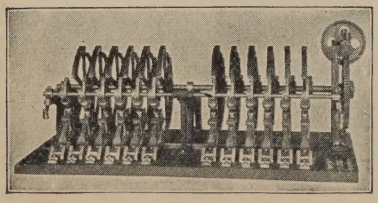
They are not intended for heavy loads. Two amperes is their limit.

Zadiril	29112	10 circuits.....	30.00
Zadirim	29113	Additional circuits	1.00



SINGLE POLE TYPE.

This type is especially adapted for flashing a sign by single letters, or any use where it is desired to flash a large number of circuits of less than 6 amperes each. It is the highest grade flasher known to the trade at the present time. The circuit is broken on an independent shoe, which prevents any arc or burning of the switch proper. The life of the contacts is almost indefinite. They are absolutely noiseless, will run with the smallest fan motor made and is the only flasher known that is guaranteed never to give trouble.



Zadirin	29114	2 switches.....	23.00
Zadirip	29115	3 switches.....	24.00
Zadirir	29116	4 switches.....	26.00
Zadiris	29117	5 switches.....	28.00
Zadirit	29118	6 switches.....	30.00
Zadiriv	29119	7 switches.....	32.00
Zadiriw	29120	8 switches.....	34.00
Zadirix	29121	9 switches.....	36.00
Zadiriy	29122	10 switches.....	38.00
Zadiriz	29123	Each additional switch	2.00

List prices do not include motors.

ILLUMINATED SIGNS.

ALL METAL ELECTRIC LETTERS.

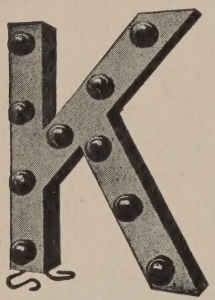
All electric letters are made entirely of heavy galvanized sheet steel, put together in a substantial and workmanlike manner, thoroughly waterproof, and neat and compact in appearance; depth of letter, 1⅜ inches. We use removable copper shells in receptacles and solder all wires under set screws, insuring a perfect contact at all times; can be attached to either wood or iron frames.

The letters are finished with white enamel on face and red enamel on sides, unless otherwise specified.

The average number of lights per letter, styles A and B, follows:

12 in.	7	30 in.	15
15 in.	8	36 in.	18
18 in.	9	42 in.	21
24 in.	12	48 in.	25

Style C from one-third to one-half less than styles A and B.

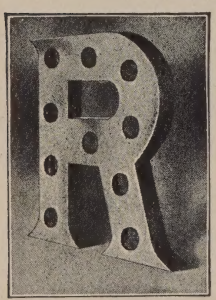


STYLE A.

PLAIN BLOCK.

Code Word	List No.		List Price Each.
Zuyak	46774	12 in. high	$3.00
Zuyal	46775	15 in. high	3.80
Zuyam	46776	18 in. high	4.70
Zuyan	46777	24 in. high	6.00
Zuyap	46778	30 in. high	7.30
Zuyar	46779	36 in. high	9.00
Zuyas	46780	42 in. high	10.50
Zuyat	46781	48 in. high	12.00

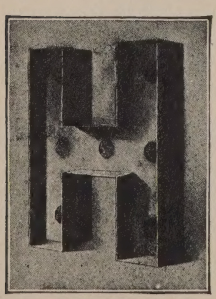
Prices for larger sizes on application.



STYLE B.

SPUR BLOCK.

Zayav	46782	15 in. high	4.25
Zuyaw	46783	18 in. high	5.25
Zuyax	46784	24 in. high	6.75
Zuyaz	46785	30 in. high	8.00
Zuye	46786	36 in. high	10.00
Zuyeb	46787	42 in. high	12 00
Zuyed	46788	48 in. high	14.00



STYLE C.

GROOVE LETTER.

Zuyef	46789	12 in. high	4.00
Zuyeg	46790	15 in. high	4.50
Zuyeh	46791	18 in. high	5.75
Zuyek	46792	24 in. high	7.00
Zuyel	46793	30 in. high	9.00
Zuyem	46794	36 in. high	11.00
Zuyen	46795	48 in. high	15.00

Prices for larger sizes on application.

ILLUMINATED SIGNS.

The purposes to which this style sign can be put are without limit, and its advantages are many.

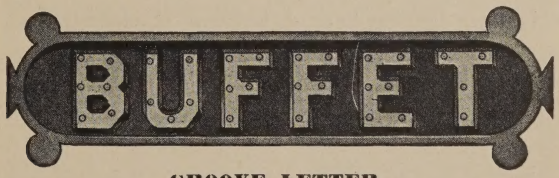
It is just as readable in the day time as at night; it is susceptible of any amount of ornamentation or style of finish; its first cost is not great, and the cost of lighting is nominal, few lamps of small candle power being required.

These signs are made of heavy sheet steel, with the letters chiseled out and backed with corrugated opal glass. Finished in plain black, maroon, dark blue or green.

Code Word.	List No.		List Price Each.
Zuxuw	46765	14 inches square	$25 00
Zuxux	46766	3 feet long, 24 inches high	35.00
Zuxuz	46767	4 feet long, 24 inches high	42.50
Zuya	46768	6 feet long, 30 inches high	65 00
Zuyab	46769	8 feet long, 36 inches high	87.50

Poles and chains included. Wired ready for hanging.

PANEL SIGNS.



GROOVE LETTER.

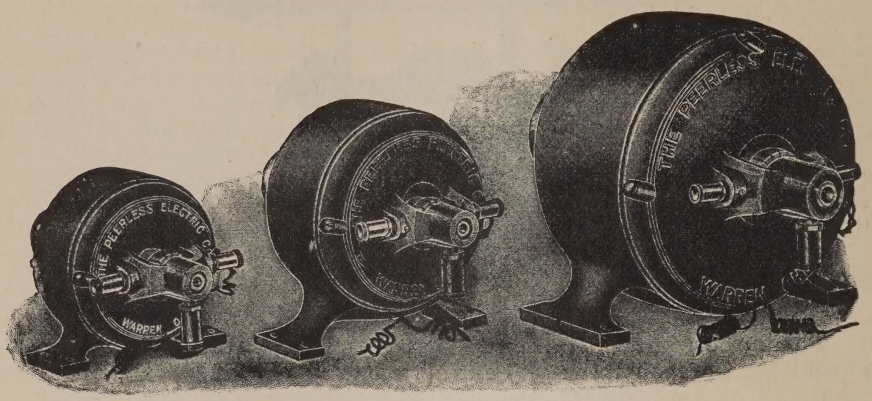
BLOCK LETTER.

Made of galvanized sheet steel; letters finished in white enamel on faces and red enamel on sides; mounted on steel background, which is finished in dark green sand. Border and ornaments finished in aluminum.

PRICES PER LETTER COMPLETE.

			Block Letter.	Groove Letter.
Zuyad	46770	12 inch	$6.00	$7.00
Zuyaf	46771	15 inch	8.00	9.00
Zuyag	46772	18 inch	10.00	12.00
Zuyah	46773	24 inch	16.00	18.00

MOTORS



To meet the demand for motors smaller than the multipolar machines, a special line is offered, ranging from 1-16 to ½ horse power in bi-polar type. They are adapted to driving jewelers' lathes, buffing lathes, drills, dental apparatus, sewing machines, emery grinders, center grinders, automatic music boxes, as well as to an almost infinite variety of other uses.

Shaft is of hard steel, ⅜ to ⅝ inch in diameter, according to size of motor, turned and polished. Bearings are long, affording large wearing surface, self aligning, fully adjustable and made of a superior quality of gun metal. Wick oilers are provided.

Armature is of the iron kind, built of soft sheet steel laminations securely clamped to shaft, and the machine wound coils are thoroughly insulated from all metal surfaces.

Special care is given the commutator, which is of selected Lake Superior copper, of uniform density, having forged segments insulated with the best mica.

Grooved pulley is furnished with each motor, but no speed regulator or starting box is supplied.

Code Word.	List No.	Type.	H. P.	Speed.	110 V.	220 V.	List Price Each. 500 V.
Zabebis	49390	Jr. A	1-20	1100	$16.00	$18.25	
Zabebit	49391	Jr. A	1-16	1500	16.00	18.25	
Zabebiv	49392	Jr. A	1-12	2400	16.00	18.25	
Zabebiw	49393	Jr. B	1-16	1100	20.00	22.25	
Zabebix	49394	Jr. B	1-12	1500	20.00	22.25	
Zabebiz	49395	Jr. B	⅛	2500	20.00	22.25	
Zabebo	49396	Jr. C	⅛	800	32.00	35.50	$49.00
Zabebob	49397	Jr. C	¼	1500	32.00	35.50	49.00
Zabebod	49398	Jr. C	½	2400	32.00	35.50	49.00

Listed speeds are for shunt wound motors at 110 volts and 220 volts.

Speed of Junior C 500 volts 10 per cent. higher.

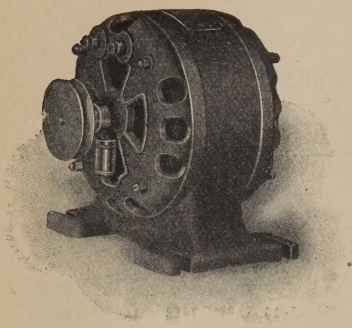
Above motors with special base containing rheostat at following extra list prices:

Jr. A, $5.60; Jr. B, $5.60; Jr. C, $16.65.

Wall rheostat only, no base, $4.50 list.

Buffing arbors, $2.25 list each.

Grinding arbors, $3.35 list each.



No. 32063.

G. E. MOTORS.

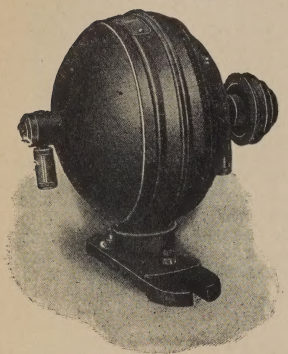
ONE-TENTH H. P. MOTORS.

ONE-TENTH H. P. SINGLE-PHASE ALTERNATING CURRENT.

Code Word.	List No.	Cycles.	Volts.	Speed.
Zabixic	32063	60	110	1800
Zabixid	32065	60	220	1800
Zabixif	32062	125	110	1875
Zabixig	32064	125	220	1875

ONE-TENTH H. P. DIRECT CURRENT MOTORS.

Zabixih	27683	Shunt	115	1500
Zabixik	27684	Shunt	230	1500
Zabixil	27685	Series	115	1500
Zabixim	27686	Series	220	1500



No. 31799.

ONE-FIFTEENTH H. P. MOTORS.

ONE-FIFTEENTH H. P. ALTERNATING CURRENT MOTOR.

Zabixin	29560	60	110	1800
Zabixip	31799	60	220	1800
Zabixir	29561	125	110	1875
Zabixis	31806	125	220	1875

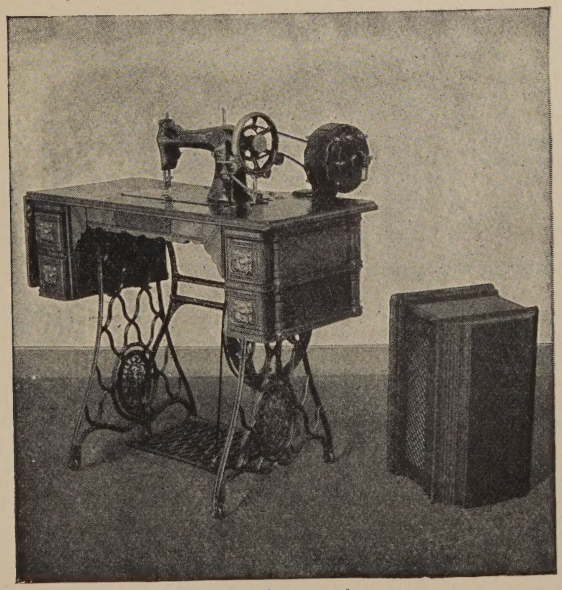
ONE-FIFTEENTH H. P. DIRECT CURRENT MOTORS.

Zabixit	23520	Shunt	115	1800
Zabixiv	26360	Series	115	2200
Zabixiw	31798	Series	230	2200

SEWING MACHINE MOTOR OUTFITS.

For 115 and 230 Volts, Direct Current, and 110 and 220 Volts, 60 or 125 Cycles, Alternating Current.

Adapted to All Standard Sewing Machines.



Prices on Application.

BRUSHES.

WIRE GAUZE DYNAMO BRUSH.

PURE COPPER GAUZE BRUSHES.

Code Word.	List No.	Length, Inches.	Width, Inches.	Thickness.								
				⅛	3-16	¼	5-16	⅜	7-16	½	9-16	⅝
Dogmatism	3731	6	½	$.75	$.85	$.90	$.95					
Dogmatist	3732	6	⅝	.90	.95	1.00	1.05					
Dogmatize	3733	6	¾	.95	1.00	1.05	1.10	$1.15				
Domain	3734	6	⅞	1.05	1.10	1.15	1.30	1.50				
Domestic	3735	6	1	1.10	1.20	1.30	1.50	1.80	$2.10	$2.40		
Domicile	3736	6	1⅛		1.40	1.50	1.80	2.15	2.40	2.75		
Dominant	3737	7	1¼		1.60	1.75	2.00	2.25	2.75	3.30		
Dominate	3738	7	1 5-16		1.65	1.80	2.05	2.30	2.80	3.40	$4.10	
Dominie	3739	7	1⅜		1.75	1.85	2.05	2.35	2.90	3.45	4.20	
Domineer	3740	7	1 7-16		1.80	1.90	2.10	2.45	3.00	3.55	4.30	$5.10
Dominion	3741	7	1½		1.90	1.95	2.20	2.50	3.00	3.60	4.40	5.20
Dominical	3742	7	1⅝		2.00	2.10	2.30	2.60	3.10	3.70	4.50	5.30
Donative	3743	7	1¾		2.10	2.20	2.40	2.70	3.20	3.80	4.60	5.40
Doomsday	3744	7	1 13-16		2.20	2.30	2.50	2.70	3.30	3.85	4.70	5.50
Door	3745	7	1⅞		2.30	2.40	2.60	2.80	3.40	3.90	4.80	5.60
Dormant	3746	7	2		2.40	2.50	2.70	3.00	3.50	4.00	4.90	5.70

PERFECTION BRONZE BRUSHES.

		Length, Inches.	Thickness in inches.	1¾	1⅞	2	2 3-16	2¼	2½	2⅞	3
Dormitive	3747	8	3-16	$2.10	$2.35	$2.60	$2.65	$2.70	$2.80	$3.00	$3.10
Dormitory	3749	8	¼	2.35	2.50	2.70	2.75	2.80	3.00	3.20	3.25
Dorsal	3750	8	5-16	2.40	2.65	2.75	2.90	3.00	3.50	4.00	4.60
Dose	3751	8	⅜	2.70	2.75	3.00	3.35	3.50	4.00	4.75	5.00
Dost	3752	8	7-16	3.05	3.10	3.40	3.65	3.90	4.40	5.15	5.40
Dot	3753	8	½	3.25	3.50	3.75	4.15	4.25	4.75	5.50	5.75

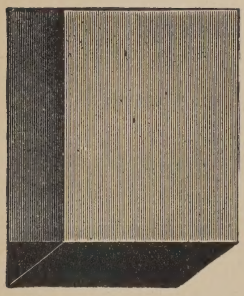
Longer or shorter lengths, different widths and thicknesses, proportionate prices.

		Length Inches.	Thickness in inches.	Width in Inches.								
				½	¾	⅞	1	1⅛	1 3-16	1¼	1⅜	1½	1⅝
Dote	3754	7	3-16	$.90	$1.15	$1.25	$1.40	$1.50	$1.55	$1.60	$1.75	$1.85	$2.00
Doth	3755	7	¼	.95	1.25	1.35	1.50	1.60	1.70	1.75	1.85	2.00	2.25
Double	3756	7	5-16	1.05	1.35	1.45	1.60	1.70	1.80	1.90	2.00	2.20	2.35
Doublet	3757	7	⅜	1.15	1.40	1.55	1.75	1.80	1.95	2.05	2.20	2.40	2.65
Doubt	3758	7	7-16	1.25	1.45	1.65	1.90	2.00	2.10	2.20	2.35	2.60	2.85
Douche	3759	7	½	1.35	1.50	1.75	2.00	2.15	2.25	2.30	2.50	2.75	3.00

BRUSHES

STANDARD CARBON BRUSHES.

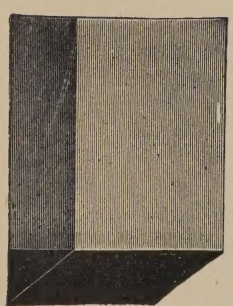
STANDARD SIZES OF CARBON BRUSHES.



	List Price, Per 100.		List Price, Per 100.
6 x ½ x ⅛	$8.00	6 x 1⅜ x 5-16	$22.00
6 x ¾ x ⅛	8.00	6 x 1 7-16 x 5-16	22.00
6 x ½ x 5-32	8.00	6 x 1½ x 5-16	22.00
6 x ⅝ x 5-32	10.00	6 x 1⅝ x 5-16	30.00
6 x ¾ x 5-32	10.00	6 x ½ x ⅜	8.00
6 x ⅜ x ¼	8.00	6 x ⅝ x ⅜	10.00
6 x ½ x ¼	8.00	6 x ¾ x ⅜	10.00
6 x ⅝ x ¼	8.00	6 x ⅞ x ⅜	15.00
6 x ⅞ x ¼	13.00	6 x 1 x ⅜	15.00
6 x 1 x ¼	13.00	6 x 1¼ x ⅜	19.00
6 x 1¼ x ¼	16.00	6 x 1 5-16 x ⅜	22.00
6 x 1½ x ¼	19.00	6 x 1⅜ x ⅜	22.00
6 x 1⅝ x ¼	25.00	6 x 1½ x ⅜	22.00
6 x 1¾ x ¼	25.00	6 x 1⅝ x ⅜	30.00
6 x ½ x 5-16	8.00	6 x 1¼ x 7-16	21.00
6 x ⅝ x 5-16	10.00	6 x 1⅜ x 7-16	26.00
6 x ¾ x 5-16	10.00	6 x 1 7-16 x 7-16	26.00
6 x ⅞ x 5-16	15.00	6 x 1⅜ x ½	26.00
6 x 1 x 5-16	15.00	6 x 1 7-16 x ½	26.00
6 x 1⅛ x 5-16	19.00	6 x 1½ x ½	26.00
6 x 1¼ x 5-16	19.00	6 x 1¾ x ½	34.00
6 x 1 5-16 x 5-16	22.00	6 x ⅝ x ⅝	15.00

LUBRICATING TYPE CARBON BRUSHES.

A long life Carbon Brush that will not cut the Commutator. Strongly recommended for use on machines where first-class service is required.

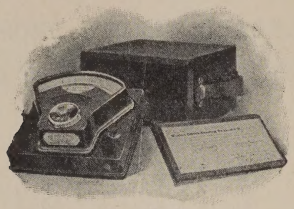


	List Price, Each.		List Price, Each.
2 x 1 23-32 x ½	23c.	3½ x 1⅞ x ⅝	33c.
2 x 2 x ½	23c.	3½ x 2¼ x ⅝	34c.
2 x 2 x ⅝	26c.	3½ x 2¼ x ¾	37c.
2¼ x 1¾ x 7-16	23c.	3½ x 2⅝ x ¾	39c.
2¼ x 2¼ x ½	23c.	3½ x 1¾ x ⅞	39c.
2¼ x ¾ x ⅝	23c.	3½ x 2¼ x 1	41c.
2¼ x 1⅝ x ⅝	24c.	3½ x 2½ x 1	46c.
2¼ x 1¾ x ⅝	25c.	3½ x 2⅝ x 1	47c.
2¼ x 2¼ x ⅝	26c.	4 x ¾ x ⅜	23c.
2¼ x 2 7-16 x ⅝	27c.	4 x 2 x 1	47c.
2¼ x 1¾ x 1	33c.	4½ x 1⅝ x ⅝	35c.
2½ x 1¾ x ½	23c.	5 x ¾ x ¼	24c.
2½ x 2⅛ x ½	25c.	6 x ½ x ¼	23c.
2½ x 2¼ x ⅝	27c.	6 x ⅞ x ¼	24c.
2½ x 1 15-16 x ¾	31c.	6 x 1 x ¼	25c.
2¾ x 1⅝ x ½	25c.	6 x 1⅛ x ¼	26c.
2¾ x 2¼ x ½	25c.	6 x 1½ x ¼	29c.
2¾ x 2¼ x ⅝	29c.	6 x 1¼ x 7-16	33c.
2¾ x 2½ x ⅝	29c.	6 x 1½ x ½	35c.
3 x 1¼ x ½	27c.	6½ x 1½ x ⅜	35c.
3 x 2 x ½	29c.	7 x ½ x ¼	24c.
3 x 2½ x ½	29c.	7 x ⅞ x ¼	27c.
3 x 2⅞ x ½	30c.	7 x 1⅛ x ¼	29c.
3 x 1¼ x ⅝	29c.	7 x 1½ x ¼	31c.
3 x 1⅝ x ⅝	33c.	7 x 1⅛ x 5-16	31c.
3 x 1¾ x ⅝	33c.	7 x 1 x ⅜	31c.
3 x 1⅝ x ¾	34c.	7 x 1¾ x ⅜	35c.
3 x 1¾ x ¾	34c.	7 x 1½ x 7-16	35c.
3 x 2 x ¾	35c.	7½ x 1¼ x ½	35c.
3 x 2⅞ x ¾	39c.	8 x 1½ x 5-16	35c.
3 x ⅝ x ⅞	28c.	8 x 1½ x ½	41c.
3 x 2 x 1	41c.	8 x 1⅞ x 9-16	51c.
3½ x 2¼ x ½	29c.		

WESTON INSTRUMENTS.

STANDARD PORTABLE VOLTMETER, MODEL 1.

For Direct Current.



No. 50242.

Code Word.	List No.	Mfr. No.	Range in Volts.	No. of Scale Divisions.	Value of Each Scale Division in Volts.	Readable to	Attachments.	List Price, Each.
Zabepal	50242	1	150	150	1	1/10 of a volt	.....	$55.00
Zabepam	50243	2	150	150	1	1/10 of a volt	Contact Key	57.50
Zabepan	50244	3	150	150	1	1/10 of a volt	Contact Key	75.00
			5		1/30	1/300 of a volt		
Zabepap	50245	3½	150	150	1	1/10 of a volt	Contact Key	75.00
			3		1/50	1/500 of a volt		
Zabepar	50246	4	150	150	1	1/10 of a volt	Contact Key	75.00
			15		1/10	1/100 of a volt		
Zabepas	50247	4½	300	150	2	1/5 of a volt	Contact Key	77.50
			150		1	1/10 of a volt		
Zabepat	50248	5	300	150	2	1/5 of a volt	Contact Key	65.00
Zabepav	50249	6	450	150	3	1/3 of a volt	Contact Key	65.00
Zabepaw	50250	7	600	120	5	1/2 of a volt	Contact Key	65.00
Zabepax	50251	9	600	150	4	1/2 of a volt	Contact Key	80.00
			150		1	1/10 of a volt		
Zabepaz	50252	9½	750	150	5	1/2 of a volt	Contact Key	80.00
			150		1	1/10 of a volt		
Zabepe	50253	10	600	150	4	1/2 of a volt	Contact Key	80.00
			300		2	1/5 of a volt		
Zabepeb	50254	11	750	150	5	1/2 of a volt	Contact Key	70.00
Zabeped	50255	Any of the above with Reversing Key (revolt), extra.....						2.50

(When Reversing Key is applied Contact Key is omitted.)

Prices for instruments with ranges other than those listed will be the same as for those of the next higher range.

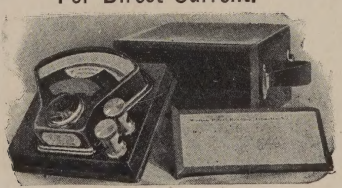
INSPECTOR'S STYLE.

To list prices of voltmeters above add amounts given below.

Zadacan	26676	1	Complete with flexible cords.....	4.00
Zadacap	26677	2	Complete with flexible cords and compartment for same	5.00
Zadacar	26678	3	Case contains compartment with set of four lamp adapters and flexible conducting cords.....	10.00

STANDARD PORTABLE AMMETER, MODEL 1.

For Direct Current.

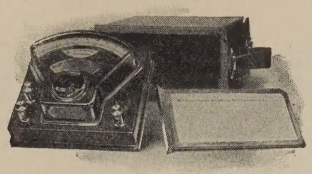


No. 50231.

			Range in Amperes.	Number of Scale Divisions.	Value of Each Scale Division in Amperes.	Readable to.	
Zabenuv	50231	1	5	100	1/20	1/200 of an ampere	65.00
Zabenuw	50232	2	15	150	1/10	1/100 of an ampere	65.00
Zabenux	50233	3	25	100	1/4	1/40 of an ampere	65.00
Zabenuz	50234	4	50	100	1/2	1/20 of an ampere	65.00
Zabepa	50235	5	100	100	1	1/10 of an ampere	70.00
Zabepab	50236	6	150	150	1	1/10 of an ampere	75.00
Zabepad	50237	7	200	100	2	1/5 of an ampere	80.00
Zabepaf	50238	8	250	125	2	1/5 of an ampere	80.00
Zabepag	50239	9	300	150	2	1/5 of an ampere	80.00
Zabepah	50240	10	400	80	5	1/2 of an ampere	90.00
Zabepak	50241	11	500	100	5	1/2 of an ampere	90.00

WESTON INSTRUMENTS.

STANDARD PORTABLE DIRECT READING MIL-AMMETERS, MODEL 1.



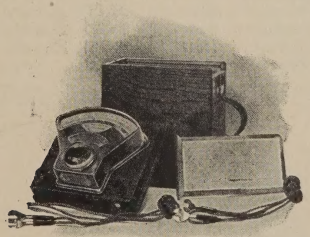
No. 50225.

Code Word.	List No.	Mfr. No.	Range in Mil-Amperes.	Number of Scale Divisions.	Value of Each Scale Division in Mil-amperes.	Readable to	List Price, Each.
Zabenuk	50223	0	150	150	1	1-10 of a mil-ampere	$50.00
Zabenul	50224	1	300	150	2	⅕ of a mil-ampere	50.00
Zabenum	50225	2	600	150	4	⅖ of a mil-ampere	50.00
Zabenun	50226	3	1000	100	10	1 mil-ampere	50.00
Zabenup	50227	4	1500	150	10	1 mil-ampere	55.00

DOUBLE-SCALE MIL-AMMETERS.

Zabenur	50228	5	500 50	100	5 ½	1-20 of a mil-ampere	60.00
Zabenus	50229	6	500 10	100	5 1-10	1-100 of a mil-ampere	60.00
Zabenut	50230	7	Same range and capacity as No. 6, but is supplied with a small resistance box or multiplier, having two coils. When this is connected in series with the instrument binding-posts marked 10, the lower scale may be read directly in volts, a full scale deflection being secured with 10 or 100 volts, according to the coil of the multiplier used				75.00

STANDARD PORTABLE MILLI-VOLTMETERS, MODEL 1.



No. 50258.

Zabepeh	50258	1	Range, 0 to 20 milli-volts, 100 divisions, each representing 2 of a milli-volt, readable to .02 of a milli-volt	50.00
Zabepek	50259	2	Range, 10 to 0 to 10 milli-volts, zero center, 100 divisions, each representing .2 of a milli-volt, readable to .02 of a milli-volt	50.00
Zabepel	50260	3	Double range, 10 to 0 to 10 and 100 to 0 to 100 milli-volts, zero center, 100 divisions, supplied with contact key, by the use of which either range may be employed	55.00
Zabepem	50261	4	Double range, 0 to 20 and 0 to 200 milli-volts, 3 binding-posts, 100 divisions, each representing either .2 of a milli-volt or 2 milli-volts, according to range used	55.00

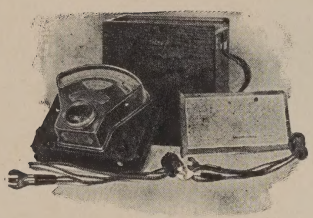
These instruments may be arranged for use with alloy shunts for ampere measurements at an additional cost of 5.00.

WESTON INSTRUMENTS.

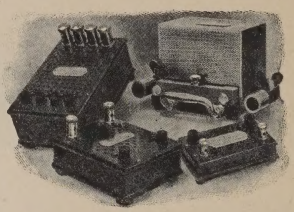
STANDARD PORTABLE MILLI-VOLTMETERS, MODEL 1.

With Shunts for Ampere Measurements.

Direct Current.



Model 1, Milli-Voltmeter.



Special Alloy Shunts.

Code Word.	List No.		List Price, Each.
Zabesin	50465	Portable standard milli-voltmeter	$50.00

Extra Shunts.

Shunts with Single Range.

		Range Amperes.	Price.
Zabesep	50443	1	10.00
Zabeser	50444	3	12.50
Zabeses	50445	5	15.00
Zabeset	50446	10	15.00
Zabesev	50447	15	15.00
Zabesew	50448	25	17.50
Zabesex	50449	30	20.00
Zabesez	50450	50	22.50
Zabesi	50451	75	25.00
Zabesib	50452	100	30.00
Zabesid	50453	150	32.50
Zabesif	50454	200	35.00
Zabesig	50455	250	37.50
Zabesih	50456	300	40.00
Zabesik	50457	400	45.00
Zabesil	50458	500	50.00
Zabesim	50459	600	55.00
Zabesin	50460	750	60.00
Zabesip	50461	800	65.00
Zabesir	50462	1000	80.00
Zabesis	50463	1500	130.00
Zabesit	50464	2000	175.00

Shunts with Two Ranges Combined in One Case.

	Range Amperes.	Price.
Zabesoh	5- 1	20.00
Zabesok	10- 1	22.50
Zabesol	15-1.5	25.00
Zabesom	15- 3	25.00
Zabeson	30- 3	25.00
Zabesop	40- 4	27.50
Zabesor	50- 5	30.00
Zabesos	75- 15	35.00
Zabesot	100- 10	40.00
Zabesov	150- 15	42.50
Zabesow	150- 30	45.00
Zabesox	200- 20	47.50
Zabesoz	300- 15	52.50
Zabesu	300- 30	55.00
Zabesub	300-150	60.00
Zabesud	400- 40	60.00
Zabesuf	400-200	65.00
Zabesug	500- 50	62.50
Zabesuh	500-100	65.00
Zabesuk	500-200	65.00
Zabesul	600- 60	65.00
Zabesum	600-300	80.00
Zabesun	750-300	90.00
Zabesup	1000-500	140.00

Shunts with Three or More Ranges Combined in One Case.

	Range Amperes.	Price.
Zabesur	15-3-0.75	30.00
Zabesus	15-3-1.5	30.00
Zabesut	30-15-1.5	35.00
Zabesuv	30-15-3	35.00
Zabesuw	30-15-7.5-1.5	47.50
Zabesux	50-5-0.5	40.00
Zabesuz	50-10-1	40.00
Zabeta	50-20-5-0.5	55.00
Zabetab	75-15-1.5	42.50
Zabetad	100-10-1	45.00
Zabetaf	100-20-2	45.00
Zabetag	100-50-20-2	60.00
Zabetah	100-50-20-10-5-1	70.00
Zabetak	150-15-1.5	50.00
Zabetal	150-15-1.5-.15	60.00
Zabetam	150-75-15	55.00
Zabetan	150-75-15-1.5	65.00
Zabetap	150-75-15-1.5-0.75	70.00
Zabetar	200-20-2	55.00
Zabetas	200-100-10	60.00
Zabetat	300-15-1.5	60.00
Zabetav	300-30-3	60.00
Zabetaw	300-75-15	65.00

Above prices include adjustment between milli-voltmeters and shunts.

LEATHER CASES.

Zabesiw	50466	Cases made for portable voltmeters, Nos. 1 to 12, inclusive*	4.00
Zabesix	50467	Cases made for inspector's style	4.00
Zabesiz	50468	Cases made for portable mil-ammeter*	4.00
Zabeso	50469	Cases made for portable ammeter, Nos. 1 to 7, inclusive*	4.00
Zabesob	50470	Cases made for portable ammeter, Nos. 8 and 9	4.00
Zabesod	50471	Cases made for portable ammeter, Nos. 10 and 11	4.00
Zabesof	50472	Cases made for portable milli-voltmeter, Nos. 1 to 4, inclusive*	4.00
Zabesog	50473	Cases made for portable alternating current voltmeter†	4.00

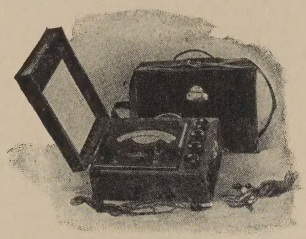
*When ordered with new instrument in place of wooden case the price will be 3.50 instead of 4.00.

†This case is furnished without charge with each new alternating-current voltmeter.

WESTON INSTRUMENTS.

STANDARD PORTABLE DIRECT-READING VOLTMETERS, MODEL 18.

For Alternating and Direct Current.



No. 26687.

Code Word.	List No.	Mfr. No.	Ranges in Volts.	Best Range in Volts.	Value of Each Scale Division in Best Range.	Within Best Range Readable to.	List Price, Each.
Zadacas	26679	1	1.5 to 7.5	2.5 to 6.5	1/20 of a volt	1/200 of a volt	$60.00
Zadacat	26680	2	1.5 to 10	4 to 9	1/10 of a volt	1/100 of a volt	60.00
Zadacav	26681	3	2 to 12	5 to 11	1/10 of a volt	1/100 of a volt	60.00
Zadacaw	26682	4	3 to 15	5.5 to 12	1/10 of a volt	1/100 of a volt	60.00
Zadacax	26683	5	3 to 20	7 to 18	1/5 of a volt	1/50 of a volt	60.00
Zadacay	26684	6	10 to 60	25 to 55	1/2 of a volt	1/20 of a volt	60.00
Zadacaz	26685	7	15 to 75	30 to 65	1/2 of a volt	1/20 of a volt	60.00
Zadace	26636	8	20 to 120	50 to 110	1 volt	1/10 of a volt	65.00
Zadaceb	26687	9	30 to 150	70 to 125	1 volt	1/10 of a volt	67.50
Zadacec	26688	10	60 to 300	140 to 250	2 volts	1/5 of a volt	70.00
Zadaced	26689	11	100 to 600	250 to 550	5 volts	1/2 of a volt	80.00

High-range voltmeters in which part of the resistance is contained in a separate box called a "Multiplier," specially designed to obtain high insulation.

Zadacef	26690	12	200 to 1200 volts	500 to 1100 volts	10 volts	1 volt	90.00
Zadaceg	26691	13	300 to 1500 volts	700 to 1250 volts	10 volts	1 volt	97.50
Zadaceh	26692	14	400 to 2400 volts	1000 to 2200 volts	20 volts	2 volts	100.00
Zadacek	26693	15	600 to 3000 volts	1400 to 2500 volts	20 volts	2 volts	110.00

INSPECTOR'S STYLE PORTABLE VOLTMETERS.

For the greater convenience of inspectors we furnish instruments of this style with any range in an "Inspector's Box."

Zabenub	50218	1	Inspector's style has an additional compartment for flexible connecting cord. Price, additional to price of voltmeter...	2.50
Zabenud	50219	2	Inspector's style, same as above, but with four lamp adapters and flexible cord with connecting plug. Price, additional to price of voltmeter.....	7.50
Zabenuf	50220		Single lamp adapter, if ordered separately.....	1.25

WESTON STANDARD PORTABLE WATTMETERS, MODEL 16.

For Alternating and Direct Current.

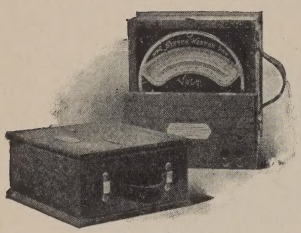
			Watts.	Value of Each Scale Division in Watts.	Max. Current Carrying Capacity in Amperes.	Maximum Voltage.	
Zadacel	26694	1	150	1	2	150	70.00
Zadacem	26695	1A	75	½	2	75	75.00
			150	1	2	150	
Zadacen	26696	1B	150	1	2	150	85.00
Zadacep	26697	2	1500	10	10	150	70.00
Zadacer	26698	2A	750	5	10	75	75.00
			1500	10	10	150	
Zadaces	26699	3	3750	25	25	150	75.00
Zadacet	26700	3A	1500	10	25	75	80.00
			3000	20	25	150	
Zadacev	26701	4	7500	50	50	150	75.00
Zadacew	26702	4A	3750	25	50	75	80.00
			7500	50	50	150	
Zadacex	26703	5	15000	100	100	150	80.00
Zadacey	26704	5A	7500	50	100	75	85.00
			15000	100	100	150	
Zadacez	26705	6	30000	200	200	150	85.00
Zadaci	26706	6A	15000	100	200	75	90.00
			30000	200	200	150	

List prices of multipliers on application.

WESTON INSTRUMENTS.

PORTABLE VOLTMETERS, MODEL 45.

For Direct Current.



No. 50203.

Code Word.	List No.	Range in Volts.	Value of Each Scale Division in Volts.	List Price, Each.
Zabenob	50200	0 to 3	.02	$25.00
Zabenod	50201	0 to 5	.05	25.00
Zabenof	50202	0 to 15	.1	25.00
Zabenog	50203	0 to 150	1.	29.50
Zabenoh	50204	0 to 300	2.	32.50
Zabenok	50205	0 to 600	5.	35.00
Zabenol	50206	0 to 750	5.	37.00

Double-scale voltmeters in this type will be furnished, when desired, at the price of 5.00 additional to the list price for the highest range.

PORTABLE AMMETER, MODEL 45.

For Direct Current.

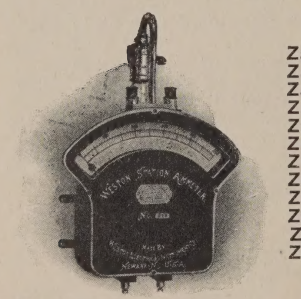
(These instruments consist of milli-voltmeters adjusted with external station type shunts to read direct in amperes for all ranges above 25 amperes.)

		Range in Amperes.	Value of Each Scale Division in Amperes.	
Zabenom	50207	0 to 5	.05	25.00
Zabenon	50208	0 to 15	.1	25.00
Zabenop	50209	0 to 25	.2	25.00
Zabenor	50210	0 to 50	.5	25.50
Zabenos	50211	0 to 100	1.	26.50
Zabenot	50212	0 to 150	1.	27.00
Zabenov	50213	0 to 200	2.	28.00
Zabenow	50214	0 to 250	2.	28.25
Zabenox	50215	0 to 300	2.	28.25
Zabenoz	50216	0 to 400	5.	28.50
Zabenu	50217	0 to 500	5.	29.50

Ammeters of higher range than 500 amperes can be furnished to order. Prices on application.

ILLUMINATED DIAL STATION AMMETERS, MODEL 9.

For Direct Current.



No. 50266.

		Range in Amperes.	Value of Each Scale Division in Amperes.	
Zabepen	50262	200	2	59.50
Zabepep	50263	250	2	59.50
Zabeper	50264	300	2	59.75
Zabepes	50265	400	5	60.00
Zabepet	50266	500	5	61.00
Zabepev	50267	600	5	62.00
Zabepew	50268	750	5	63.00
Zabepex	50269	1000	10	64.00
Zabepez	50270	1200	10	65.00
Zabepi	50271	1500	10	70.75
Zabepib	50272	2000	20	75.25
Zabepid	50273	2500	20	76.75

In placing order please give style of lamp socket desired. These prices are for No. 2 finish (dead black japan with nickel trimmings). For No. 3 finish (all nickel-plated), add 2.50.

ILLUMINATED DIAL STATION VOLTMETERS, MODEL 9.

		Range in Volts.	Value of Each Scale Division in Volts.	
Zabepif	50274	0 to 85	1	55.00
Zabepig	50275	0 to 100	1	56.00
Zabepih	50276	0 to 125	1	58.00
Zabepik	50277	0 to 135	1	60.00
Zabepil	50278	0 to 150	1	62.00
Zabepim	50279	0 to 250	2	64.00
Zabepin	50280	0 to 300	2	66.00

These prices are for No. 2 finish, dead black japan with nickel trimmings. For No. 3 finish, all nickel-plated, add 2.50.

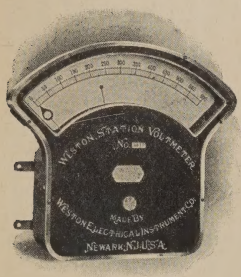
In placing order please give style of lamp socket desired.

The instruments listed above are furnished both in regular and flush styles, and for connection at either front or rear of switchboard at same list price. Unless otherwise ordered we will furnish regular style for front connection.

WESTON INSTRUMENTS.

ILLUMINATED DIAL STATION AMMETERS, MODEL 11.

For Direct Current.

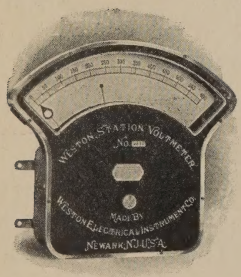


No. 50377.

Code Word.	List No.	Range in Amperes.	Value of Each Scale Division in Amperes.	List Price of Instrument with Shunt.	List Price of Shunts Alone.
Zaberib	50362	200	2	$79.50	$3.00
Zaberid	50363	250	2	79.50	3.00
Zaberif	50364	300	2	79.75	3.25
Zaberig	50365	400	5	80.00	3.50
Zaberih	50366	500	5	81.00	4.50
Zaberik	50367	600	5	82.00	5.50
Zaberil	50368	750	5	83.00	6.50
Zaberim	50369	1000	10	84.00	7.50
Zaberin	50370	1200	10	85.00	8.50
Zaberip	50371	1500	10	90.75	14.25
Zaberir	50372	2000	20	95.25	18.75
Zaberis	50373	2500	20	96.75	20.25
Zaberit	50374	3000	20	99.00	22.50
Zaberiv	50375	3500	20	102.00	25.50
Zaberiw	50376	4000	30	106.50	30.00
Zaberix	50377	4500	40	114.00	37.50
Zaberiz	50378	5000	50	121.50	45.00
Zabero	50379	6000	50	129.00	52.50
Zaberob	50380	7000	50	136.50	60.00
Zaberod	50381	8000	100	151.50	75.00
Zaberof	50382	10000	100	166.50	90.00

ILLUMINATED DIAL STATION VOLTMETERS, MODEL 11.

For Direct Current.



No. 50388.

		Volts.	Value of Each Scale Division in Volts.	
Zaberog	50383	125	1	75.00
Zaberoh	50384	150	1	76.00
Zaberok	50385	180	2	77.00
Zaberol	50386	250	2	78.00
Zaberom	50387	300	2	79.00
Zaberon	50388	600	5	80.00
Zaberop	50389	750	5	81.00
Zaberor	50390	1000	10	100.00
Zaberos	50391	1500	10	110.00
Zaberot	50392	2000	20	120.00
Zaberov	50393	2500	20	130.00
Zaberow	50394	3000	25	135.00
Zaberox	50395	3250	25	140.00
Zaberoz	50396	3500	25	150.00
Zaberu	50397	4000	50	160.00
Zaberub	50398	4500	50	170.00
Zaberud	50399	5000	50	180.00
Zaberuf	50400	6000	50	195.00
Zaberug	50401	6500	50	205.00
Zaberuh	50402	7000	50	210.00
Zaberuk	50403	7500	50	220.00
Zaberul	50404	8000	100	230.00
Zaberum	50405	9000	100	250.00
Zaberun	50406	10000	100	275.00

These prices are for No. 2 finish, black japan with nickel trimmings. For No. 3 finish, all nickel-plated, add 4.50.

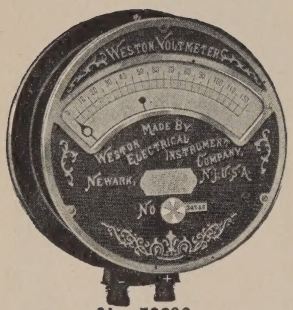
In placing order please give style of lamp socket desired.

The instruments listed above are furnished both in regular and flush styles, and for connection at either the front or rear of switchboard at the same list price. Unless ordered otherwise we will furnish regular instruments for front connection.

WESTON INSTRUMENTS.

ROUND PATTERN STATION INSTRUMENTS, MODEL 57.

For Direct Current.

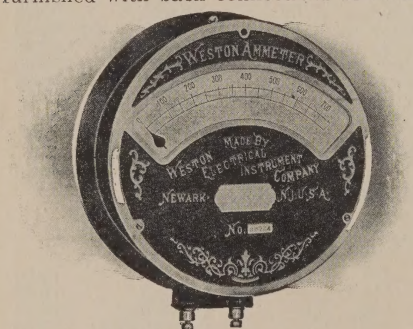


No. 50296.

AMMETERS.

Code Word.	List No.	Range in Amperes.	Value of Each Division.	List Price, Each.
Zabepip	50281	1	0.01	$25.00
Zabepir	50282	5	0.05	25.00
Zabepis	50283	10	0.1	25.00
Zabepit	50284	15	0.1	25.00
Zabepiv	50285	25	0.2	25.00
Zabepiw	50286	50	0.5	25.50
Zabepix	50287	75	0.5	26.00
Zabepiz	50288	100	1	26.50
Zabepo	50289	150	1	27.00
Zabepob	50290	200	2	28.00
Zabepod	50291	250	2	28.25
Zabepof	50292	300	2	28.25
Zabepog	50293	400	5	28.50
Zabepoh	50294	500	5	29.50
Zabepok	50295	600	5	30.50
Zabepol	50296	750	5	31.50
Zabepom	50297	1000	10	32.50
Zabepon	50298	1200	10	33.50
Zabepop	50299	1500	10	39.25
Zabepor	50300	2000	20	43.75
Zabepos	50301	2500	20	45.25

These prices are for No. 2 finish (black japan with nickel trimmings). For No. 3 finish (all nickel plated), add 2.00. Any of the instruments in the above list will be furnished with back connections or flush-type cases, when specified in order.



No. 50413.

VOLTMETERS.

		Range in Volts.	Value of Each Scale Division in Volts.	
Zaberup	50407	3	0.02	25.00
Zaberur	50408	6	0.05	25.00
Zaberus	50409	15	0.1	25.00
Zaberut	50410	25	0.2	26.00
Zaberuv	50411	50	0.5	26.50
Zaberuw	50412	75	0.5	27.25
Zaberux	50413	125	1	28.25
Zaberuz	50414	150	1	29.50
Zabesa	50415	250	2	31.50
Zabesab	50416	300	2	32.50
Zabesad	50417	600	5	35.00
Zabesaf	50418	750	5	37.00

These prices are for No. 2 finish (black japan with nickel trimmings). For No. 3 finish, all nickel-plated, add 2.00.

ROUND PATTERN STATION INSTRUMENTS, MODEL 24.

AMMETERS.

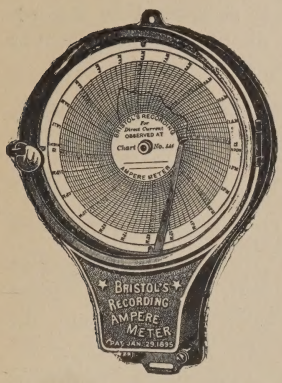
		Range in Amperes.	Value of Each Scale Division in Amperes.				Range in Amperes.	Value of Each Scale Division in Amperes.	
Zabesag	50419	0 to 1	.02	15.00	Zabesap	50425	0 to 80	2	15.75
Zabesah	50420	0 to 5	.1	15.00	Zabesar	50426	0 to 100	2	16.00
Zabesak	50421	0 to 10	.2	15.00	Zabesas	50427	0 to 130	2	16.50
Zabesal	50422	0 to 15	.2	15.50	Zabesat	50428	0 to 150	2	16.50
Zabesam	50423	0 to 25	.5	15.50	Zabesav	50429	0 to 200	4	17.00
Zabesan	50424	0 to 50	1	15.75					

VOLTMETERS.

		Range in Volts.	Value of Each Scale Division in Volts.				Range in Volts.	Value of Each Scale Division in Volts.	
Zabesaw	50430	0 to 3	.05	15.50	Zabeseg	50437	0 to 80	2	16.00
Zabesax	50431	0 to 5	.1	15.50	Zabeseh	50438	0 to 130	2	16.50
Zabesaz	50432	0 to 6	.1	15.75	Zabesek	50439	0 to 150	2	17.00
Zabese	50433	0 to 10	.2	16.00	Zabesel	50440	0 to 250	5	19.50
Zabeseb	50434	0 to 15	.2	16.00	Zabesem	50441	0 to 300	5	20.50
Zazesed	50435	0 to 25	.5	16.00	Zabesen	50442	0 to 600	8	26.50
Zabesef	50436	0 to 50	1	16.00					

These prices are for No. 3 finish (black japan with nickel trimmings). For No. 3 finish (all nickel-plated), add 1.50.

BRISTOL'S RECORDING VOLTMETERS FOR ALTERNATING CURRENT.



Increasing Graduations.

Code Word.	List No.	Mfr. No.	Working Range.	Total Scale.	One rev. of chart.	List Price Each.
Zabasuk	48266	15201	20 to 65	0 to 70	24 hr..	$60.00
Zabasul	48267	15202	20 to 65	0 to 70	1 hr..	60.00
Zabasum	48268	15205	40 to 120	0 to 130	12 hr..	60.00
Zabasun	48269	15206	40 to 140	0 to 150	24 hr..	60.00
Zabasup	48270	15207	50 to 225	0 to 250	24 hr..	60.00
Zabasur	48271	15208	75 to 250	0 to 275	24 hr..	60.00
Zabasus	48272	15210	100 to 260	0 to 280	1 hr..	60.00
Zabasut	48273	15211	75 to 260	0 to 280	15 m..	60.00
Zabasuv	48274	15212	75 to 275	0 to 300	24 hr..	60.00
Zabasuw	48275	15213	100 to 275	0 to 300	12 hr..	60.00
Zabasux	48276	15214	100 to 300	0 to 325	24 hr..	60.00
Zabasuz	48277	15215	150 to 420	0 to 450	24 hr..	60.00
Zabata	48278	15216	100 to 450	0 to 500	24 hr..	60.00
Zabatab	48279	15217	200 to 550	0 to 600	24 hr..	60.00
Zabatad	48280	15219	300 to 720	0 to 800	24 hr..	70.00

FOR DIRECT CURRENT.

Increasing Graduations.

Zabataf	48281	15000	6 to 25 Volts	0 to 27 Volts	24 hour.....	60.00
Zabatag	48282	15001	20 to 55 Volts	0 to 60 Volts	24 hour.....	60.00
Zabatah	48283	15004	40 to 140 Volts	0 to 150 Volts	24 hour.....	60.00
Zabatak	48284	15006	100 to 260 Volts	0 to 280 Volts	1 hour.....	60.00
Zabatal	48285	15007	75 to 260 Volts	0 to 280 Volts	15 min.....	60.00
Zabatam	48286	15008	100 to 275 Volts	0 to 300 Volts	12 hour	60.00
Zabatan	48287	15009	75 to 275 Volts	0 to 300 Volts	24 hour.....	60.00
Zabatap	48288	15010	100 to 300 Volts	0 to 325 Volts	24 hour.....	60.00
Zabatar	48289	15011	200 to 550 Volts	0 to 600 Volts	12 hour.....	60.00
Zabatas	48290	15012	200 to 550 Volts	0 to 600 Volts	24 hour.....	60.00
Zabatat	48291	15013	200 to 600 Volts	0 to 650 Volts	24 hour.....	60.00
Zabatav	48292	15014	300 to 720 Volts	0 to 800 Volts	24 hour.....	65.00
Zabataw	48293	15015	600 to 2200 Volts	0 to 2350 Volts	12 hour.....	75.00

Nearly Uniform Graduations.

Zabatax	48294	15016	1 to 5 Volts	0 to 6 Volts	24 hour.....	60.00
Zabataz	48295	15017	2 to 16 Volts	0 to 18 Volts	24 hour.....	60.00
Zabate	48296	15018	20 to 25 Volts	20 to 26 Volts	24 hour.....	65.00

Uniform Graduations.

Zabateb	48297	15019	100 to 130 Volts	100 to 135 Volts	24 hour.....	65.00

Nearly Uniform Graduations.

Zabated	48298	15020	10 to 70 Volts	0 to 80 Volts	24 hour.....	60.00

Special for Shipboard.

Zabatef	48299	15021	30 to 120 Volts	0 to 130 Volts	24 hour.	70.00

For both + and — Current.

Zabateg	48300	15022	—4 to +4 Volts	—5 to +5 Volts	24 hour...	65.00

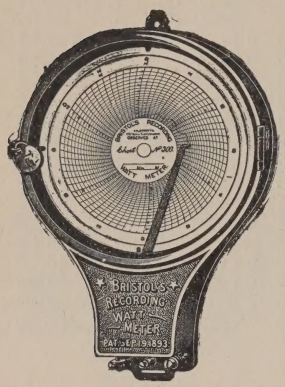
Voltmeters for special ranges made to order.

BRISTOL'S RECORDING AMPERE METERS (FOR DIRECT CURRENT.)

Nearly Uniform Graduation.

Zabateh	48301	4000	1 to 6 Amps.	0 to 7 Amps.	24 hour.... ...	60.00
Zabatek	48302	4001	2 to 9 Amps.	0 to 10 Amps.	24 hour.....	60.00
Zabatel	48303	4002	2 to 9 Amps.	0 to 10 Amps.	6 hour	60.00
Zabatem	48304	4003	2 to 9 Amps.	0 to 10 Amps.	15 min.....	60.00
Zabaten	48305	4004	2 to 13 Amps.	0 to 15 Amps.	24 hour.....	60.00
Zabatep	48306	4005	5 to 27 Amps.	0 to 30 Amps.	24 hour.....	60.00
Zabater	48307	4007	10 to 55 Amps.	0 to 60 Amps.	6 hour.....	60.00
Zabates	48308	4008	25 to 110 Amps.	0 to 120 Amps.	24 hour.....	70.00
Zabatet	48309	4009	25 to 110 Amps.	0 to 125 Amps.	12 hour.....	70.00
Zabatev	48310	4010	25 to 135 Amps.	0 to 150 Amps.	15 min.....	70.00
Zabatew	48311	4011	30 to 165 Amps.	0 to 180 Amps.	24 hour.....	70.00
Zabatex	48312	4012	25 to 165 Amps.	0 to 180 Amps.	6 hour.....	70.00

BRISTOL'S RECORDING WATT METERS.



Bristol's Damping Device should be ordered for Recording Ampere and Watt Meters for all places where current fluctuates rapidly over wide ranges, as on power circuits.

BRISTOL'S RECORDING INSTRUMENT SUPPLIES AND EXTRAS.

Damping Device (extra net)..	$ 5.00
Aluminum Cases, reducing weight one-half (extra net)	8.00
Carrying Case for Electrical Instruments (single compartment), (extra net)	6.00
Carrying Case for Electrical Instruments (double compartment), (extra net)	7.00
Special Chart made to order (extra net)	15.00
Additional Charts (one color), per hundred	.75
Special Recording Instrument Ink, per bottle	.25

Special Finish or Copper Electro Plate instead of Nickel Plate to Order.

Watt Meters for Special Ranges Made to Order.

FOR DIRECT CURRENT.

Nearly Uniform Graduations.

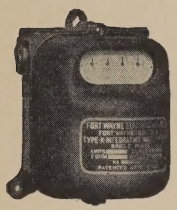
Code Word.	List No.	Mfr. No.	Maximum Voltage.	Maximum Current.	Total Scale.	One rev. of chart.	List Price Each.
Zabasim	48233	3000	125 Volts	48 Amps.	0 to 6 K-W	24 hour...	70.00
Zabasin	48234	3001	125 Volts	48 Amps.	0 to 6 K-W	12 hour...	70.00
Zabasip	48235	3002	125 Volts	120 Amps.	0 to 15 K-W	12 hour...	80.00
Zabasir	48236	3003	125 Volts	145 Amps.	0 to 18 K-W	24 hour...	80.00
Zabasit	48237	3004	125 Volts	240 Amps.	0 to 30 K-W	24 hour...	90.00
Zabasiv	48238	3007	150 Volts	600 Amps.	0 to 90 K-W	24 hour...	90.00
Zabasiw	48239	3010	150 Volts	1200 Amps.	0 to 180 K-W	12 hour...	100.00
Zabasix	48240	3011	150 Volts	1200 Amps.	0 to 180 K-W	24 hour...	100.00
Zabasiz	48241	3012	250 Volts	24 Amps.	0 to 6 K-W	24 hour...	70.00
Zabaso	48242	3013	250 Volts	24 Amps.	0 to 6 K-W	12 hour...	70.00
Zabasob	48243	3014	250 Volts	60 Amps.	0 to 15 K-W	12 hour...	70.00
Zabasod	48244	3016	250 Volts	120 Amps.	0 to 30 K-W	24 hour...	80.00
Zabasof	48245	3017	250 Volts	150 Amps.	0 to 38 K-W	12 hour...	80.00
Zabasog	48246	3018	250 Volts	300 Amps.	0 to 76 K-W	12 hour...	90.00
Zabasoh	48247	3024	600 Volts	10 Amps.	0 to 6 K-W	24 hour...	70.00
Zabasok	48248	3025	600 Volts	10 Amps.	0 to 6 K-W	12 hour...	70.00
Zabasol	48249	3026	600 Volts	25 Amps.	0 to 15 K-W	12 hour...	70.00
Zabasom	48250	3027	600 Volts	30 Amps.	0 to 18 K-W	24 hour...	70.00
Zabason	48251	3028	600 Volts	50 Amps.	0 to 30 K-W	24 hour...	70.00
Zabasop	48252	3031	600 Volts	150 Amps.	0 to 90 K-W	24 hour...	80.00
Zabasor	48253	3034	600 Volts	300 Amps.	0 to 180 K-W	12 hour...	90.00
Zabasos	48254	3035	600 Volts	300 Amps.	0 to 180 K-W	24 hour...	90.00
Zabasot	48255	3036	3000 Volts	10 Amps.	0 to 30 K-W	24 hour...	85.00
Zabasov	48256	3037	3500 Volts	10 Amps.	0 to 35 K-W	24 hour...	85.00

FOR ALTERNATING CURRENT WITH POTENTIAL AND SERIES TRANSFORMERS.

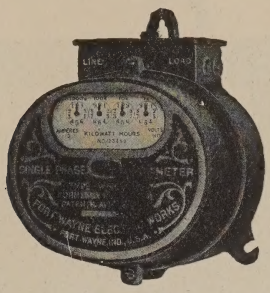
Nearly Uniform Graduations.

			Graduations.	Total Scale.	One rev. of chart.	Price List with and without Transformers.
Zabasow	48257	3200	$\frac{1}{20}$ K-W	0 to 2½ K-W	24 hour	Furnished on application
Zabasox	48258	3201	1 K-W	0 to 50 K-W	24 hour	Furnished on application
Zabasoz	48259	3202	2 K-W	0 to 100 K-W	24 hour	Furnished on application
Zabasu	48260	3203	10 K-W	0 to 500 K-W	24 hour	Furnished on application
Zabasub	48261	3204	20 K-W	0 to 800 K-W	24 hour	Furnished on application
Zabasud	48262	3205	50 K-W	0 to 1600 K-W	24 hour	Furnished on application
Zabasuf	48263	3206	50 K-W	0 to 2000 K-W	24 hour	Furnished on application
Zabasug	48264	3207	50 K-W	0 to 2500 K-W	24 hour	Furnished on application
Zabasuh	48265	3208	100 K-W	0 to 4000 K-W	24 hour	Furnished on application

FORT WAYNE WATTMETERS.



Form SAB.
TYPE K.
Single Phase.
Induction Integrating Wattmeter.



Form SII.
TYPE W.
Single Phase.
Induction Integrating Wattmeter.

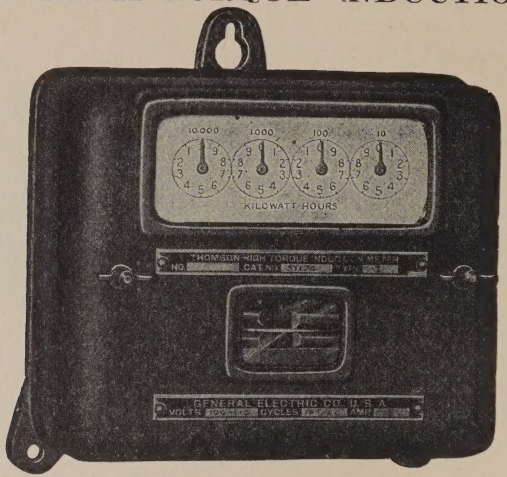
Form MAB.
TYPE K.
Multiphase.
Induction Integrating Wattmeter.

LIST PRICES

Ampere Capacity.	Type K. Single Phase. Forms SAA and SAB. Classes 2-50 2-110	Classes 2-220 3-220	Form SAC. Class 2-550	Classes 2-1100 2-2200	Type K. Multiphase. For 2-phase 3-wire circuits. For 3-phase 3-wire circuits. For 2-phase 4-wire circuits. Form MAB. 110 volt.	220 volt.	440 and 550 volt.	Form MAC. 1000 and 2200 volt.	TYPE W. Single Phase. SII and SIZ. Forms Class 2-100	Classes 3-220 2-220
3	*$22.50	†$28.00	$40.00	.....	$60.00	$65.00	$75.00	$280.00	.....	.....
5	22.50	28.00	50.00	.....	60.00	65.00	75.00	.....	$21.25	$26.25
7½	.....	‡29.00	.....	.....	.....	.....	.....	.....	.....	.....
10	25.00	30.00	55.00	$95.00	65.00	70.00	80.00	290.00	23.15	27.75
15	28.00	40.00	60.00	100.00	70.00	75.00	85.00	310.00	.....	.....
20	34.00	45.00	62.00	.....	.....	.....	.....	.....	30.60	40.50
25	40.00	50.00	65.00	110.00	75.00	80.00	95.00	330.00	.....	.....
30	41.00	52.00	70.00	.....	.....	.....	.....	.....	.....	.....
40	43.00	56.00	77.00	.....	.....	.....	.....	.....	38.75	50.50
50	45.00	60.00	85.00	125.00	80.00	90.00	105.00	350.00	.....	.....
60	50.00	65.00	90.00	.....	.....	.....	.....	.....	.....	.....
75	60.00	70.00	100.00	140.00	90.00	100.00	115.00	360.00	.....	.....
100	70.00	80.00	110.00	160.00	100.00	120.00	140.00	370.00	.....	.....
125	75.00	85.00	120.00	.....	.....	.....	.....	.....	.....	.....
150	80.00	90.00	125.00	175.00	120.00	140.00	170.00	385.00	.....	.....
200	90.00	†100.00	150.00	.....	.....	.....	.....	.....	.....	.....
250	95.00	†105.00	162.00	.....	.....	.....	.....	.....	.....	.....
300	100.00	†110.00	175.00	.....	.....	.....	.....	.....	.....	.....
400	115.00	†135.00	200.00	.....	.....	.....	.....	.....	.....	.....
500	130.00	†150.00	250.00	.....	.....	.....	.....	.....	.....	.....
600	145.00	†165.00	275.00	.....	.....	.....	.....	.....	.....	.....
800	175.00	†190.00	300.00	.....	.....	.....	.....	.....	.....	.....
1,000	205.00	†220.00	350.00	.....	.....	.....	.....	.....	.....	.....
1,200	235.00	†250.00	375.00	.....	.....	.....	.....	.....	.....	.....

*Made only in Class 2-110. ‡Made only in Class 3-220. †Made only in Class 2-220.

THOMSON HIGH TORQUE INDUCTION METER.



As will be seen from the illustration, the various elements are combined in a neatly designed rectangular iron case, which is provided with three supporting lugs. The various elements are fastened to a spider, or casting, which is in turn secured to the meter case by two retaining screws and two sealing pins. Removal of the screws and sealing pins allows the entire mechanism to be quickly and easily removed for inspection.

The meter cover combines maximum lightness with strength and extreme stiffness. The cover is held in position by means of two studs and wing nuts which firmly clamp it down on a felt packing, thus rendering the meter dust and insect proof. Two rectangular openings fitted with glass windows are arranged so that both the register dial and the meter disk can be plainly observed.

TYPE I.

SINGLE PHASE.

Front Connected, Metal or Glass Cover, No. 3 Finish.
100-120 Volts, 40-133 Cycles.

Code Word.	List No.	Mfr. No.	*Lights.	Amperes.	List Price, Each.
Zaciwak	24230	51173	6	3	$22.50
Zaciwal	24231	51174	10	5	22.50
Zaciwam	24232	51175	20	10	25.00
Zaciwan	24233	51176	30	15	28.00
Zaciwap	24234	51177	50	25	40.00
Zaciwar	24235	51178	100	50	45.00
Zaciwas	24236	51179	150	75	60.00
Zaciwat	24237	51180	200	100	70.00
Zaciwav	24238	51181	300	150	80.00
Zaciwaw	24239	33584	400	200	90.00
Zaciwax	24240	33585	600	300	100.00
		200-240 Volts, Three-Wire.			
Zaciway	24241	33588	12	3	28.00
Zaciwaz	24242	33589	20	5	28.00
Zaciwe	24243	33590	40	10	30.00
Zaciweb	24244	51191	60	15	40.00
Zaciwec	24245	51192	100	25	50.00
Zaciwed	24246	51193	200	50	60.00
Zaciwef	24247	51194	300	75	70.00
Zaciweg	24248	51195	400	100	80.00
Zaciweh	24249	51196	600	150	90.00
		200-240 Volts, Two-Wire.			
Zaciwek	24250	19042	12	3	28.00
Zaciwel	24251	51182	20	5	28.00
Zaciwem	24252	51183	40	10	30.00
Zaciwen	24253	51184	60	15	40.00
Zaciwep	24254	51185	100	25	50.00
Zaciwer	24255	51186	200	50	60.00
Zaciwes	24256	51187	300	75	70.00
Zaciwet	24257	51188	400	100	80.00
Zaciwev	24258	51189	600	150	90.00
Zaciwew	24259	33586	800	200	100.00
Zaciwex	24260	33587	1200	300	110.00

*Rated on a basis of 50 watts per lamp.

THOMSON RECORDING WATTMETER.

TYPE "C."

FRONT CONNECTED, METAL COVER. NO. 3 FINISH.

200-240 Volts, 2-Wire.

Code Word.	List No.	*Lights.	H. P.	Amps.	List Price, Each.
Zacebo	37614	20	1¼	5	$32.50
Zacebob	37615	40	2	10	35.00
Zaceboc	37616	60	3½	15	42.50
Zacebod	37617	100	7	25	50.00
Zacebof	37618	200	15	50	60.00
Zacebog	37619	300	20	75	80.00
Zaceboh	37620	400	25	100	95.00
Zacebok	37621	600	40	150	115.00
Zacebol	37622	1200	80	300	150.00
Zacebom	37623	2400	160	600	220.00

100-120 Volts, 2-Wire.

Code Word.	List No.	*Lights.	Amperes.	List Price, Each.
Zacebu	37594	10	5	$27.50
Zacebub	37595	20	10	30.00
Zacebuc	37596	30	15	35.00
Zacebud	37597	50	25	40.00
Zacebuf	37598	100	50	50.00
Zacebug	37599	150	75	70.00
Zacebuh	37600	200	100	80.00
Zacebuk	37601	300	150	100.00
Zacebul	37602	600	300	130.00
Zacebum	37603	1200	600	190.00

500-600 Volts, 2-Wire.

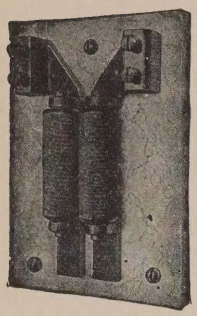
		H. P.	Amperes.	
Zacebon	37624	2½	5	40.00
Zacebop	37625	5	10	45.00
Zacebor	37626	7½	15	50.00
Zacebos	37627	15	25	60.00
Zacebot	37628	30	50	70.00
Zacebou	37629	50	75	90.00
Zacebow	37630	60	100	105.00
Zacebox	37631	100	150	125.00
Zaceboy	37632	200	300	175.00
Zaceboz	37633	400	600	250.00

200-240 Volts, 3-Wire.

Zacubun	37604	20	5	32.50
Zacebup	37605	40	10	35.00
Zacebur	37606	60	15	42.50
Zacebus	37607	100	25	50.00
Zacebut	37608	200	50	60.00
Zacebuv	37609	300	75	85.00
Zacebuw	37610	400	100	100.00
Zacebux	37611	600	150	125.00
Zacebuy	37612	1200	300	175.00

*Rated on a basis of 50 watts per lamp.
Note—Always state normal voltage of circuit.

WESTINGHOUSE LIGHTNING ARRESTERS.



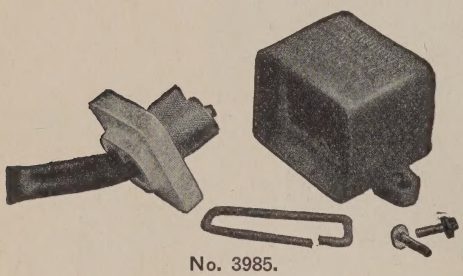
No. 3984.

FOR ALTERNATING CURRENT LIGHT AND POWER CIRCUITS.

SAFETY GAPS FOR SECONDARY CIRCUITS.

This consists of two non-arcing metal cylinders with an air gap between. One cylinder is connected to the line and the other to the ground. It is used for secondary circuits of transformers, for protecting individual series arc lamps, etc.

Code Word.	List No.	Mfr. No.	Type.	Volts.	List Price. Each.
Zacocur	3984	4753	Indoor	Up to 4500.....	4.00



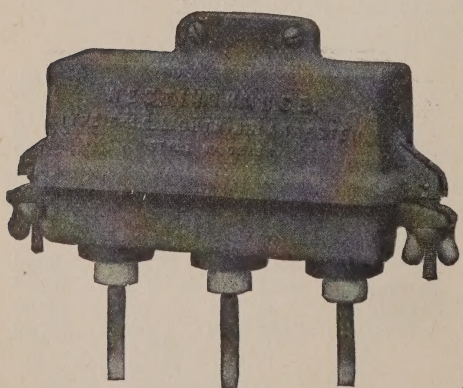
No. 3985.

Zacocus	3985	46185	Outdoor	Up to 4500	2.00

DOUBLE-POLE LINE ARRESTER.

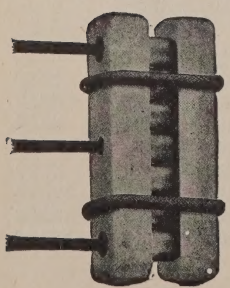
TYPE C.

This lightning arrester consists of seven cylinders of non-arcing metal mounted on a porcelain base which is encased in a weather proof iron box. Leads are brought out from the first, last and middle cylinders. For circuits with normal potential not exceeding 1,250 volts the arrester will afford protection for both sides of a two-wire circuit, the middle lead being grounded and the two outside leads connected to the line wires. When a single line wire is to be protected on a circuit of not more than 1,250 volts, only half of the arrester is used, the middle lead being grounded and the line connected to one of the outside leads. For circuits exceeding 1,250 volts, but not exceeding 2,500, one of the outside leads is grounded and the other is connected to the line, the middle lead being disconnected. In this case it is a single-pole arrester.



No. 3986.

Zacocut	3986	62133	500-2500	5.65



No. 3987.

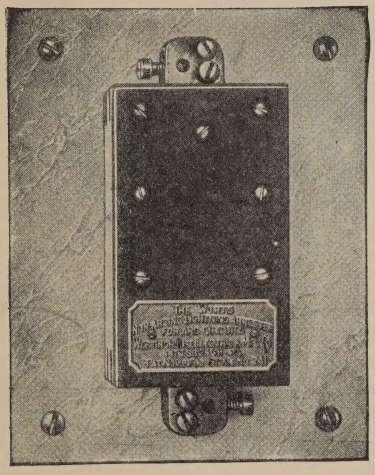
Zacocuv	3987	48231	Unit for above.....	3.00

A special mounting of the units without the case will be furnished when desired. Price on application.

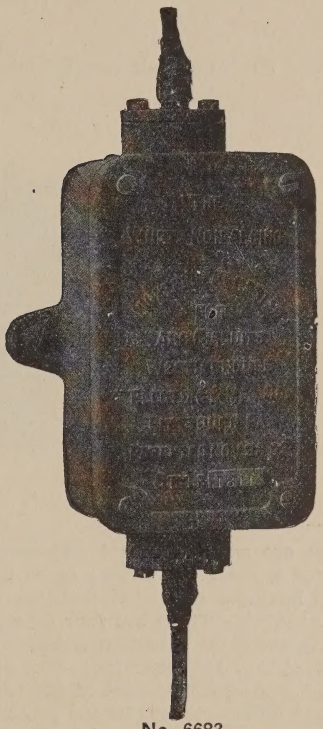
WESTINGHOUSE LIGHTNING ARRESTERS.

FOR DIRECT CURRENT CIRCUITS.

SINGLE POLE.



No. 6682.



No. 6683.

The Type I Arrester is a single-pole instrument and consists of two metal electrodes mounted upon a lignum vitæ block, flush with its surface. Charred or carbonized grooves provide a ready path for the discharge, while a second block fitting closely upon the first block prevents gases or vapors from forming, and consequently no arc follows the discharge.

TYPE I.

The arrester is mounted upon a marble base for station use.

Code Word.	List No.	Mfr. No.	Voltage of Circuit.	List Price, Each.
Zacozan	6682	1810	Up to 4000 volts	$10.00

TYPE J.

This arrester is similar to No. 6682, but being for line use is enclosed in an iron box.

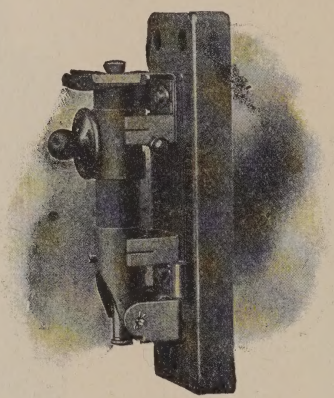
			Line Voltage.	
Zacozap	6683	1811	Up to 4000 volts	7.00

WESTINGHOUSE AUTOMATIC CIRCUIT-BREAKERS.

TYPE "F" CARBON BREAK.

Front Connected—Overload Release.

For Potentials Not Exceeding 250 Volts D.C. and 440 Volts A.C.



These are small, compact and serviceable breakers. They are designed to fulfil a demand for a protective device to be installed with small motors and lighting installations, and having a cost commensurate with that of the rest of the system.

CAPACITIES—There are four capacities; namely, 12½, 25, 50 and 75 amperes; all of which have the same outside dimensions and differ only in the operating mechanism.

OPERATING MECHANISM—The operating solenoid is inside of a fibre tube forming the lever arm, adjustment of the tripping point being readily regulated by means of the knurled nut shown below the pivot. The tripping point may be set for any current within the range given. A small insulating knob at the right controls a tripping device and offers a means of opening the breaker by hand.

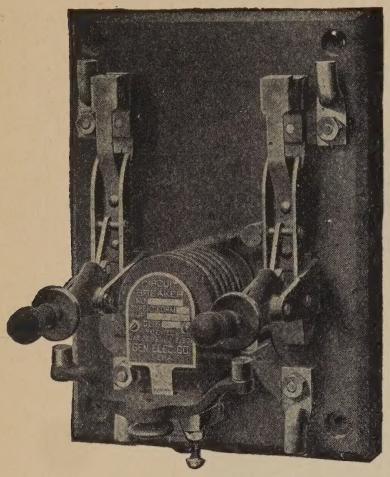
CURRENT CARRYING CONTACTS are of copper, arcing contacts are carbon, and are readily renewable. The lever arm is operated by a spring, and the contacts are of a shape to assist in opening the breaker. This form of contact is distinctly in line with the best modern practice, and the advantage of the free operation mentioned above over the operation of breakers having jaw contacts, should be noted.

INSTALLATION—By installing a breaker for each wire of the circuit, two for two-wire and three for three-wire circuits, the switch may be dispensed with and the circuit operated by means of the breakers alone. In this case the breakers are non-closable on overloads, the breaker on one side of the circuit opening when the breaker on the other side of the circuit is closed.

The style number and list price include breaker complete with base and terminals.

Code Word.	List No.	Mfr. No.	Capacity Amperes.	Range Amperes.	List Price, Each.
Zacolid	**25283**	43670	12.5	10- 20	**$5.00**
Zacolif	**25284**	43671	25	20- 40	**5.50**
Zacolig	**25285**	43672	50	40- 80	**6.00**
Zacolih	**25286**	43673	75	60-120	**6.75**

Net weight, 2 pounds.
Weight packed for shipment, 4 pounds.



G. E. AUTOMATIC CIRCUIT BREAKERS.

Overload.

Carbon Break, Type "C," Form "G," Direct Current.

Double Pole, Front Connected, Overload.

Code Word.	List No. Front Connected on Base.	List No. Back Connected for 1½ in. or 2 in. Panel.	*Ampere Capacity.	Calibration Minimum.	Calibration Maximum.	List Price, Each.
Single Pole, 250 Volts.						
Zacecul	17417	17381	3	1.5	5	$12.00
Zacecum	17418	17382	5	3	8	12.00
Zacecun	17419	17383	10	5	15	12.00
Zacecup	17420	17384	15	10	25	12.00
Zacecur	17421	17385	25	15	40	13.00
Zacecus	17422	17386	50	25	75	14.00
Zacecut	17423	17387	100	50	150	17.00
Zacecuv	17424	17388	200	100	300	25.00
Zacecuw	17425	17389	300	200	450	30.00
Double Pole, 250 Volts.						
Zacecux	17426	17390	3	1.5	5	17.00
Zacecuy	17427	17391	5	3	8	17.00
Zacecuz	17428	17392	10	5	15	17.00
Zaceda	17429	17393	15	10	25	17.00
Zacedab	17430	17394	25	15	40	18.00
Zacedac	17431	17395	50	25	75	19.00
Zacedad	17432	17396	100	50	150	22.00
Zacedaf	17433	17397	200	100	300	40.00
Zacedag	17434	17398	300	200	450	45.00
Single Pole, 500 Volts.						
Zacedah	17435	17399	3	1.5	5	16.00
Zacedak	17436	17400	5	3	8	16.00
Zacedal	17437	17401	10	5	15	16.00
Zacedam	17438	17402	15	10	25	16.00
Zacedan	17439	17403	25	15	40	17.00
Zacedap	17440	17404	50	25	75	18.00
Zacedar	17441	17405	100	50	150	21.00
Zacedas	17442	17406	200	100	300	30.00
Zacedat	17443	17407	300	200	450	35.00
Double Pole, 500 Volts.						
Zacedav	17444	17408	3	1.5	5	21.00
Zacedaw	17445	17409	5	3	8	21.00
Zacedax	17446	17410	10	5	15	21.00
Zaceday	17447	17411	15	10	25	21.00
Zacedaz	17448	17412	25	15	40	22.00
Zacede	17449	17413	50	25	75	23.00
Zacedeb	17450	17414	100	50	150	25.00
Zacedec	17451	17415	200	100	300	45.00
Zaceded	17452	17416	300	200	450	50.00

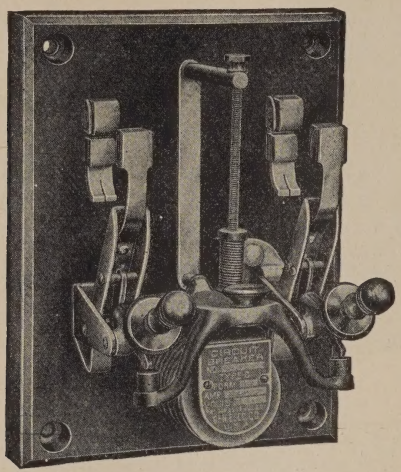
*Ampere capacity denotes the load which the breaker will carry continuously without excessive heating.

All circuit breakers of capacities up to and including 1200 amperes are supplied with the necessary nuts and terminals. Breakers of capacities over 1200 amperes are supplied with two nuts only on each stud and no terminals.

G. E. AUTOMATIC CIRCUIT BREAKERS.

Underload.

Carbon Break, Type "C," Form "G," Direct Current.



Double Pole, Back Connected, Underload.

Single Pole, 250 Volts.

Code Word.	List No. Front Connected on Base.	List No. Back Connected for 1½ in. or 2 in. Panel.	*Ampere Capacity.	Calibration Minimum.	Calibration Maximum.	List Price, Each.
Zacecof	37491	37515	15	10	25	$14.00
Zacecog	37495	37519	25	15	40	15.00
Zacecoh	37499	37523	50	25	75	16.00
Zacecok	37503	37527	100	50	150	19.00
Zacecol	37507	37531	200	100	300	28.00
Zacecom	37511	37535	300	200	450	33.00
		Double Pole, 250 Volts.				
Zacecon	37492	37516	15	10	25	19.00
Zacecop	37496	37520	25	15	40	20.00
Zacecor	37500	37524	50	25	75	21.00
Zacecos	37504	37528	100	50	150	24.00
Zacecot	37508	37532	200	100	300	44.00
Zacecov	37512	37536	300	200	450	49.00
		Single Pole, 500 Volts.				
Zacecow	37493	37517	15	10	25	18.00
Zacecox	37497	37521	25	15	40	19.00
Zacecoy	37501	37525	50	25	75	20.00
Zacecoz	37505	37529	100	50	150	23.00
Zacecu	37509	37533	200	100	300	33.00
Zacecub	37513	37537	300	200	450	38.00
		Double Pole, 500 Volts.				
Zacecuc	37494	37518	15	10	25	23.00
Zacecud	37498	37522	25	15	40	24.00
Zacecuf	37502	37526	50	25	75	25.00
Zacecug	37506	37530	100	50	150	27.00
Zacecuh	37510	37534	200	100	300	49.00
Zacecuk	37514	37538	300	200	450	54.00

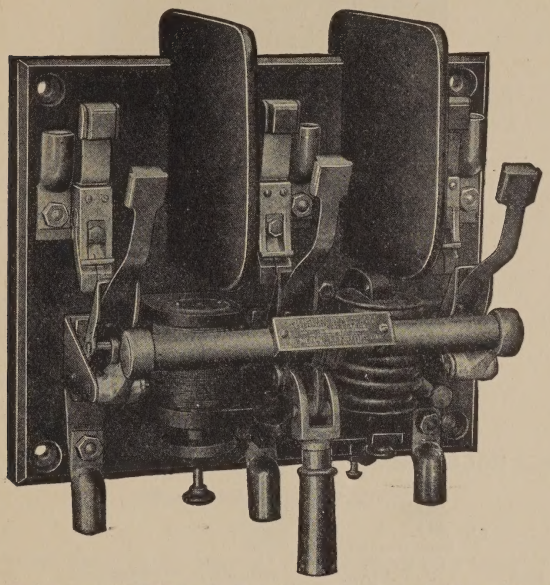
*Ampere capacity denotes the load in amperes the breaker will carry continuously without excessive heating.

Underload circuit breakers can be set to trip between the minimum limit of 10 per cent. and the maximum limit of 20 per cent. of their normal ampere carrying capacity.

G. E. AUTOMATIC CIRCUIT BREAKERS.

Overload and Low Voltage.

Carbon Break, Type "C," Form "G," Alternating Current.



Triple Pole, Type "C," Form "G," Circuit Breaker, with Overload and Low Voltage Release.

Triple Pole, 550 Volts, one Overload Coil Only.

Code Word.	List No. Front Connected on Base.	List No. Back Connected for 1½ in. or 2 in. Panel.	*Ampere Capacity.	Calibration. Minimum.	Calibration. Maximum.	List Price, Each.
Zacazum	38196	40322	15	10	25	$40.00
Zacazun	38197	40323	25	15	40	40.00
Zacazup	38198	40324	50	25	75	40.00
Zacazur	38199	40325	100	50	150	45.00
Zacazus	38200	40326	200	100	300	75.00
Zacazut	38201	40327	300	200	450	85.00

Triple Pole, 550 Volts, two Overload Coils Only.

Zacazuv	38190	38214	15	10	25	50.00
Zacazuw	38191	38215	25	15	40	50.00
Zacazux	38192	38216	50	25	75	50.00
Zacazuy	38193	38217	100	50	150	55.00
Zacazuz	38194	38218	200	100	300	85.00
Zaceba	38195	38219	300	200	450	95.00

Triple Pole, 550 Volts, one Overload and one Low Voltage Coil.

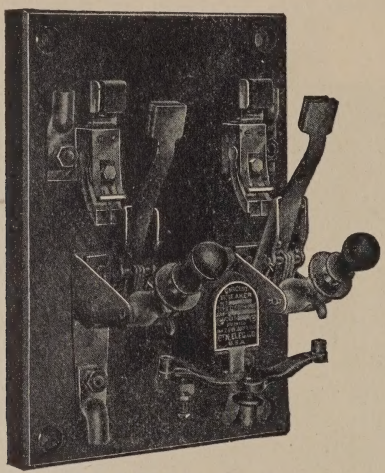
	Front Connected on Base. Cycles. 40 and 60	Front Connected on Base. Cycles. 25	Back Connected for 1½ in. or 2 in. Panel. Cycles. 40 and 60	Back Connected for 1½ in. or 2 in. Panel. Cycles. 25	Ampere Capacity.	Calibration. Minimum.	Calibration. Maximum.	
Zacebab	38202	38208	38220	38226	15	10	25	60.00
Zacebac	38203	38209	38221	38227	25	15	40	60.00
Zacebad	38204	38210	38222	38228	50	25	75	60.00
Zacebaf	38205	38211	38223	38229	100	50	150	65.00
Zacebag	38206	38212	38224	38230	200	100	300	95.00
Zacebah	38207	38213	38225	38231	300	200	450	105.00

*Ampere capacity denotes the load which the breaker will carry continuously without excessive heating.

All circuit breakers of capacities up to and including 1200 amperes are supplied with the necessary nuts and terminals. Breakers of capacities over 1200 amperes are supplied with two nuts only on each stud and no terminals.

G. E. AUTOMATIC OVERLOAD CIRCUIT BREAKERS.

CARBON BREAK, TYPE "C," FORM "G," ALTERNATING CURRENT.



DOUBLE POLE, FRONT CONNECTED, OVERLOAD 500 VOLTS.

SINGLE POLE, 250 VOLTS.

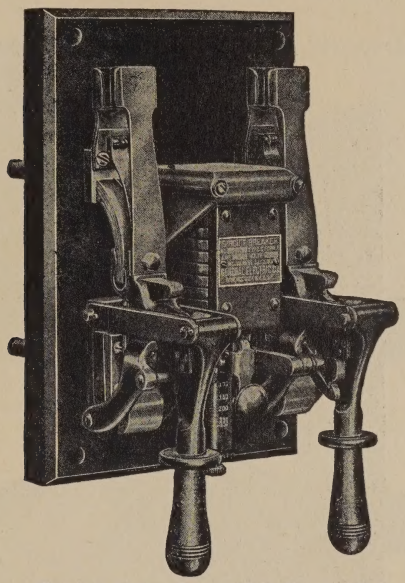
Code Word.	List No. Front Connected on Base.	List No. Back Connected for 1½ In. or 2 In. Panel.	*Ampere Capacity.	Calibration. Minimum.	Calibration. Maximum.	List Price, Each.
Zaceci	38142	38166	15	10	25	$17.00
Zacecib	38146	38170	25	15	40	18.00
Zacecic	38150	38174	50	25	75	19.00
Zacecid	38154	38178	100	50	150	22.00
Zacecif	38158	38182	200	100	300	30.00
Zacecig	38162	38186	300	200	450	35.00
		DOUBLE POLE, 250 VOLTS.				
Zacecih	38143	38167	15	10	25	22.00
Zacecik	38147	38171	25	15	40	23.00
Zacecil	38151	38175	50	25	75	24.00
Zacecim	38155	38179	100	50	150	27.00
Zacecin	38159	38183	200	100	300	45.00
Zacecip	38163	38187	300	200	450	50.00
		SINGLE POLE, 500 VOLTS.				
Zacecir	38144	38168	15	10	25	21.00
Zacecis	38148	38172	25	15	40	22.00
Zacecit	38152	38176	50	25	75	23.00
Zaceciv	38156	38180	100	50	150	26.00
Zaceciw	38160	38184	200	100	300	35.00
Zacecix	38164	38188	300	200	450	40.00
		DOUBLE POLE, 500 VOLTS.				
Zaceciy	38145	38169	15	10	25	26.00
Zaceciz	38149	38173	25	15	40	27.00
Zaceco	38153	38177	50	25	75	28.00
Zacecob	38157	38181	100	50	150	31.00
Zacecoc	38161	38185	200	100	300	50.00
Zacecod	38165	38189	300	200	450	55.00

*Ampere capacity denotes the load which the breaker will carry continuously without excessive heating.

All circuit breakers of capacities up to and including 1,200 amperes are supplied with the necessary nuts and terminals. Breakers of capacities over 1,200 amperes are supplied with two nuts only on each stud and no terminals.

G. E. CIRCUIT BREAKERS.

Type "C," Form "P," for Continuous Current Circuits.
Direct Current 250 and 650 Volts, Overload, Carbon Break.



Double Pole, Type "C," Form "P."

Code Word.	List No. On Base.	List No. For 1½ in. or 2 in. Panel.	Ampere Capacity.	Calibration Minimum.	Calibration Maximum.	List Price, Each.
Single Pole, 250 Volts, Back Connected.						
Zacedef	17453	17480	15	10	25	$35.00
Zacedeg	17454	17481	25	15	45	35.00
Zacedeh	17455	17482	50	25	75	37.00
Zacedek	17456	17483	100	50	150	42.00
Zacedel	17457	17484	200	100	300	50.00
Zacedem	17458	17485	300	200	450	60.00
Zaceden	17459	17486	500	300	750	75.00
Zacedep	17460	17487	800	500	1200	115.00
Zaceder	17461	17488	1200	800	1800	150.00
Single Pole, 650 Volts, Back Connected.						
Zacedes	17462	17489	15	10	25	38.00
Zacedet	17463	17490	25	15	45	38.00
Zacedev	17464	17491	50	25	75	40.00
Zacedew	17465	17492	100	50	150	45.00
Zacedex	17466	17493	200	100	300	55.00
Zacedey	17467	17494	300	200	450	65.00
Zacedez	17468	17495	500	300	750	80.00
Zacedi	17469	17496	800	500	1200	120.00
Zacedib	17470	17497	1200	800	1800	160.00
Double Pole, 250 Volts, Back Connected.						
Zacedic	17471	17498	15	10	25	52.00
Zacedid	17472	17499	25	15	45	52.00
Zacedif	17473	17500	50	25	75	55.00
Zacedig	17474	17501	100	50	150	60.00
Zacedih	17475	17502	200	100	300	70.00
Zacedik	17476	17503	300	200	450	90.00
Zacedil	17477	17504	500	300	750	120.00
Zacedim	17478	17505	800	500	1200	200.00
Zacedin	17479	17506	1200	800	1800	250.00

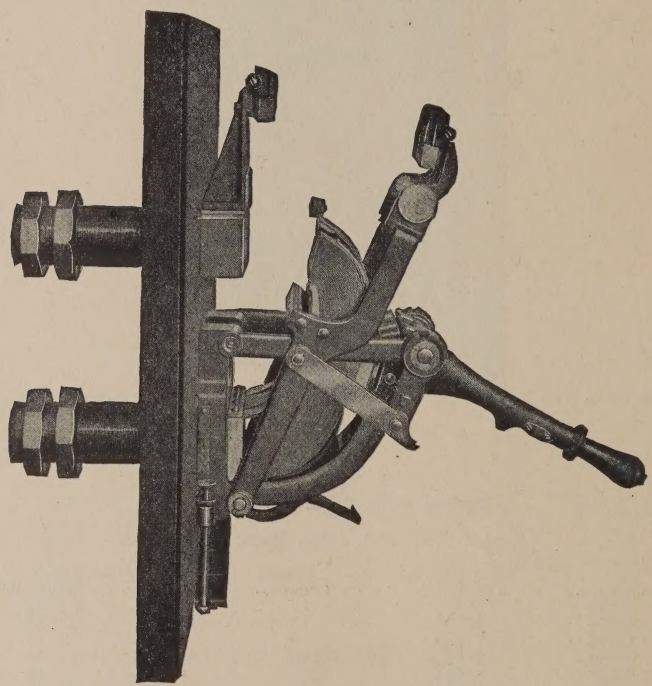
Ampere capacity denotes the load which the breaker will carry continuously without excessive heating.

All circuit breakers of capacities up to and including 1200 amperes are supplied with the necessary nuts and terminals. Breakers of capacities over 1200 amperes are supplied with two nuts only on each stud and no terminals.

G. E. CIRCUIT BREAKERS.

TYPE "C," FORM "K," CARBON BREAK CIRCUIT BREAKER.

DIRECT CURRENT, 250-650 VOLTS, 2,000-10,000 AMPERES.



Code Word.	List No. For Mounting on 2 In. Panel.	List No. Mounted on Base.‡	Rating. Volts.	Rating. Amps.	Maximum Calibration, Amps.	List Price, Each.
Zacecer	28921	29617	250	1,200- 2,000	4,000	$225.00
Zaceces	28922	.....	250	2,000- 4,000	10,000	400.00
Zacecet	*28923	.....	250	2,000- 6,000	15,000	650.00
Zacecev	28925	29619	650	1,200- 2,000	4,000	260.00
Zacecew	28926	.....	650	2,000- 4,000	10,000	450.00
Zacecex	*28927	.....	650	2,000- 6,000	15,000	775.00
Zacecey	†28928	.....	650	2,000- 8,000	20,000	950.00
Zacecez	†28929	.....	650	2,000-10,000	25,000	1,500.00

*For mounting on 2 inch or 2½ inch panel.

†For mounting on 2½ inch panel only.

‡List price includes base.

The first number in the amp. rating denotes the lowest calibrating point, while the second number denotes the continuous current carrying capacity.

CUTLER-HAMMER MOTOR-STARTING RHEOSTAT.

WITH AUTOMATIC RELEASE.

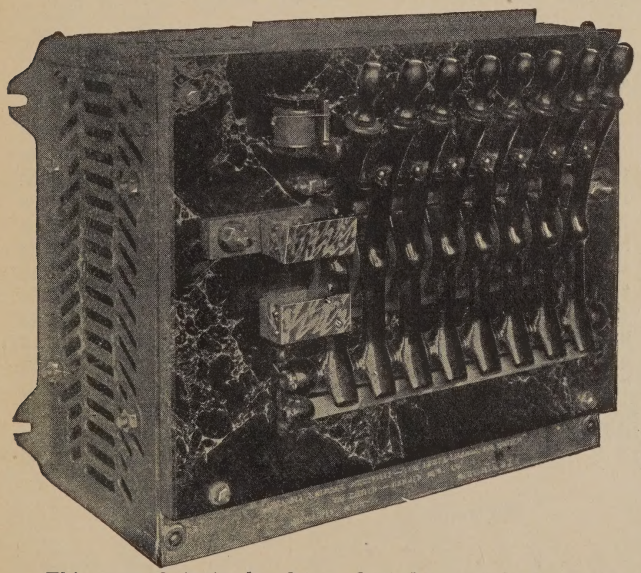
Protects the Motor from damage liable to follow an interrupted current. The least expensive motor-starter that is safe to use on any installation.

(Style "A" Front.)

H. P.	Volts. 125	Front.	240	Front.	500	Front.
¼	$5.00	A-A	$5.00	A-A	$5.50	A-A
½	6.60	A-A	6.60	A-A	7.00	A-A
1	6.60	A	6.60	A	7.00	A
2	6.60	A	6.60	A	7.00	A
3	7.30	A	7.30	A	7.50	A
4	12.00	B	9.00	A	9.00	A
5	12.20	B	11.00	A	11.00	A
7½	19.40	B	14.00	B	14.00	A
10	23.20	C	16.00	B	16.00	B
15	30.00	C	22.00	B	22.00	B
20	33.00	C	30.00	C	27.00	B
25	39.00	D	33.00	C-D	30.00	C
30	44.00	D	39.00	C-D	36.00	C-D
35	48.00	D	42.00	C-D	42.00	C-D
40	90.00	M-S	48.00	D	48.00	C-D
50	110.00	M-S	60.00	D	60.00	D

Prices on starters above 50 H. P. furnished on application.

For motors over 35 H. P. (especially in 500 Volts), starting under overload, we strongly recommend the use of our Multiple Switch Starting Rheostats.



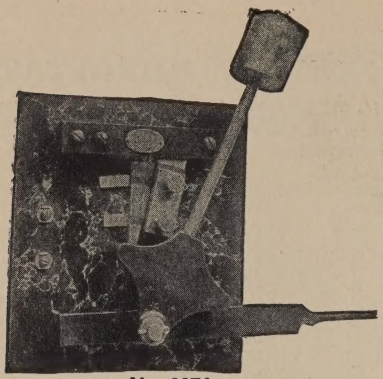
CUTLER-HAMMER MULTIPLE SWITCH STARTING RHEOSTAT.

Interlocking Levers. Laminated Contacts. Cast Metal Grid Resistance from 30 H. P. 110 and 220 Volts up, and from 55 H. P. 500 Volts up.

This type of starter has been adopted as standard on all sizes above 35 H. P., 110 volts, and 50 H. P. 220 and 500 volts, in preference to the sliding contact type listed above. Its use is also strongly recommended with motors of 40 to 50 H. P. starting under overload.

H. P.	Volts. 110	220	500	H. P.	110	220	500
10	$50.00	$50.00	$50.00	70	$140.00	$126.00	$116.00
15	54.00	54.00	54.00	75	150.00	130.00	120.00
20	60.00	60.00	60.00	80	160.00	140.00	126.00
25	70.00	70.00	70.00	85	170.00	150.00	130.00
30	70.00	70.00	70.00	90	176.00	160.00	140.00
35	70.00	70.00	70.00	95	180.00	170.00	150.00
40	90.00	90.00	90.00	100	190.00	180.00	160.00
45	100.00	90.00	90.00	110	270.00	190.00	170.00
50	110.00	90.00	90.00	125	280.00	200.00	190.00
55	120.00	100.00	100.00	135	300.00	210.00	200.00
60	130.00	110.00	100.00	140	325.00	220.00	210.00
65	140.00	120.00	110.00	150	350.00	230.00	220.00

Prices above 150 H. P. furnished on application.



No. 9074.

C. & H. NON-ARCING FLOAT SWITCH.

Code Word.	List No.	List Price Each.
Advise	9074	$8.00

C. & H. PRESSURE REGULATOR GAUGE TYPE.

For Use Only in Connection with Self-Starters.

Advocacy	9075	40.00

C. & H. FIELD REGULATORS.

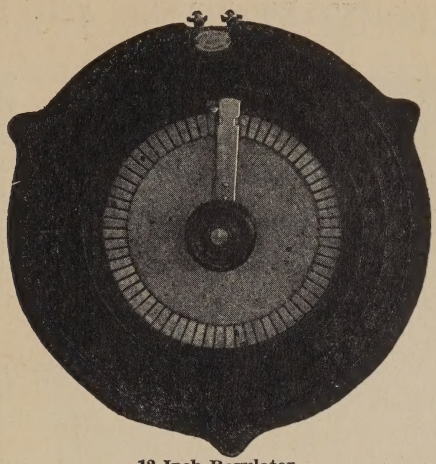
250 Volts.

		Maximum Amperes, 1st Step.	Last Step.	Ohms of Field to which Rheostat is well suited.	Total Ohms of Rheostat.	No. of Contacts.	Diameter and No. of Plates.		Front of Board Type. Code Wd, Advocate. List Price Each.	Back of Board Type. Code Wd, Admission. List Price Each.
Admonish	9076	1.	.5	300-250	300.	26	9	1	$6.80	$13.30
Admonition	9077	1.25	.63	250-200	240.	26	9	1	6.80	13.30
Admonitory	7310	1.5	.75	200-165	200.	26	9	1	6.80	13.30
Ado	7311	2.	1.	165-125	150.	26	9	1	6.80	13.30
Adopt	7312	2.5	1.25	125-100	120.	45	12	1	9.40	15.90
Adore	7313	3.	1.5	100- 85	100.	45	12	1	9.40	15.90
Adown	7314	4.	2.	85- 63	75.	45	12	1	9.40	15.90
Adrift	7315	5.	2.5	63- 50	60.	65	15	1	11.80	18.30
Adroit	7316	6.3	3.2	50- 40	48.	65	15	1	11.80	18.30
Adulate	7317	8.	4.	40- 30	37.5	130	15	2	26.60	33.10
Adult	7318	10.	5.	30- 25	30.	130	15	2	26.60	33.10
Adulterate	7319	12.5	6.3	25- 20	25.	130	15	2	26.60	33.10
Advalorem	7320	15.	7.5	20-16.5	20.	130	15	3	39.50	46.00
Advance	7321	20.	10.	16.5-12.5	15.	130	15	4	53.00	59.50
Advantage	7322	25.	12.5	12.-5-10	12.	130	15	5	66.00	72.50
Advent	7323	30.	15.	10.-8.3	10.	130	15	6	80.00	86.50

500 Volts.

									Code Wd. Admit.	Code Wd. Admixture.
Adventure	7324	1.	.5	600-500	600.	65	15	1	11.40	17.90
Minister	7325	1.25	.63	500-400	480.	45	12	1	9.40	15.90
Ministry	7326	1.5	.75	400-330	400.	45	12	1	9.40	15.90
Minority	7327	2.	1.	330-250	300.	45	12	1	9.40	15.90
Minotaur	7328	2.5	1.25	250-200	240.	65	15	1	11.80	18.30
Minstrel	7329	3.	1.5	200-165	200.	65	15	1	11.80	18.30
Minuet	7330	4.	2.	165-125	150.	130	15	2	26.60	33.10
Minus	7331	5.	2.5	125-100	120.	130	15	2	26.60	33.10
Minute	7332	6.	3.	100- 85	100.	130	15	2	26.60	33.10
Minutia	7333	7.5	3.8	85- 65	80.	130	15	3	39.50	46.00
Miracle	7334	10.	5.	65- 50	60.	130	15	4	53.00	59.50
Miraculous	7335	12.5	6.3	50- 40	48.	130	15	5	66.00	72.50
Mirage	7336	15.	7.5	40- 35	40.	130	15	6	80.00	86.50

C. & H. FIELD REGULATORS, 125 VOLTS.



12 Inch Regulator.
Front of Switchboard Type.

125 VOLTS.

FOR MOUNTING ON FRONT OF SWITCHBOARD.

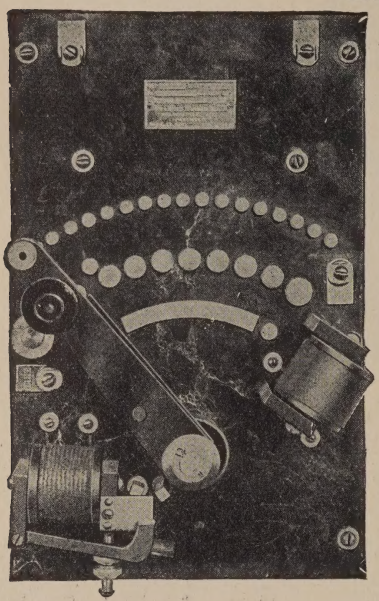
List No.	Maximum Amperes. First Step.	Last Step.	Ohms of Field to which Rheostat is well suited.	Total Ohms of Rheostat.	No. of Contacts.	Number and Diam- of Plates.		List Price Each.
7365	.5	.25	300-250	300.	26	9	1	**$6.80**
7366	.63	.33	250-200	240.	26	9	1	**6.80**
7367	.75	.38	200-165	200.	26	9	1	**6.80**
7368	1.	.50	165-125	150.	26	9	1	**6.80**
7369	1.25	.63	125-100	120.	26	9	1	**6.80**
2775	1.5	.75	100- 80	100.	26	9	1	**6.80**
2776	2.	1.	80- 60	75.	26	9	1	**6.80**
2777	2.5	1.25	60- 50	60.	26	9	1	**6.80**
2778	3.	1.5	50- 40	50.	26	9	1	**6.80**
2779	4.	2.	40- 30	37.5	26	9	1	**6.80**
2780	5.	2.5	30- 25	30.	45	12	1	**9.40**
2781	6.	3.	25- 20	25.	45	12	1	**9.40**
2782	8.	4.	20- 16	18.8	45	12	1	**9.40**
2783	10.	5.	16- 13	15.	65	15	1	**11.80**
2784	12.5	6.3	13- 10	12.	65	15	1	**11.80**
2785	16.	8.	10-8.	9.4	130	15	2	**26.60**
2786	20.	10.	8.-6.5	7.5	130	15	2	**26.60**
2787	25.	12.5	6.5-5	6.3	130	15	2	**26.60**
2788	30.	15.	5.-4.2	5.	130	15	3	**39.50**
2789	40.	20.	4.2-3.1	3.75	130	15	4	**53.00**
2790	50.	25.	3.1-2.5	3.	130	15	5	**66.00**
2791	60.	30.	2.5-2.1	2.5	130	15	6	**80.00**

FOR MOUNTING ON BACK OF SWITCHBOARD.

Code Word.								
Brigadier	**2792**	.5	.25	300-250	300.	26	9	1	**13.30**
Brigand	**2793**	.63	.33	250-200	240.	26	9	1	**13.30**
Brigantine	**2794**	.75	.38	200-165	200.	26	9	1	**13.30**
Bright	**2795**	1.	.50	165-125	150.	26	9	1	**13.30**
Brilliance	**2796**	1.25	.63	125-100	120.	26	9	1	**13.30**
Brilliant	**2797**	1.5	.75	100- 80	100.	26	9	1	**13.30**
Brim	**2798**	2.	1.	80- 60	75.	26	9	1	**13.30**
Brimstone	**2799**	2.5	1.25	60- 50	60.	26	9	1	**13.30**
Brindle	**2800**	3.	1.5	50- 40	50.	26	9	1	**13.30**
Brindled	**2801**	4.	2.	40- 30	37.5	26	9	1	**13.30**
Brine	**2802**	5.	2.5	30- 25	30.	45	12	1	**15.90**
Brink	**2803**	6.	3.	25- 20	25.	45	12	1	**15.90**
Bring	**2804**	8.	4.	20- 16	18.8	45	12	1	**15.90**
Brisk	**4650**	10.	5.	16- 13	15.	65	15	1	**18.30**
Brisket	**4651**	12.5	6.3	13- 10	12.	65	15	1	**18.30**
Bistle	**4652**	16.	8.	10-8.	9.4	130	15	2	**33.10**
Brittania	**4653**	20.	10.	8.-6.5	7.5	130	15	2	**33.10**
Brittle	**4764**	25.	12.5	6.5-5	6.3	130	15	2	**33.10**
Broach	**4765**	30.	15.	5.-4.2	5.	130	15	3	**46.00**
Broad	**4766**	40.	20.	4.2-3.1	3.75	130	15	4	**59.50**
Fibula	**4767**	50.	25.	3.1-2.5	3.	130	15	5	**86.50**
Fickle	**4768**	60.	30.	2.5-2.1	2.5	130	15	6	**86.50**

Constructionally considered the apparatus consists of a base of insulating material to which is attached the resistance wire, contacts and lever; the whole being carried by a japanned iron casing which not only gives the instrument a handsome finish, but prevents the possibility of direct contact with the heat radiating portion of the rheostat. No enamel or similar material is used in the construction, and the resistance material itself cannot possibly disintegrate through misuse. Grounding is impossible on account of the insulating base, and the compound by which the various current carrying parts are attached thereto is of such nature as to become practically part of the base when the apparatus itself is complete.

C. AND H. COMPOUND STARTING AND REGULATING RHEOSTAT.



WITH UNDERLOAD AND OVERLOAD RELEASE.

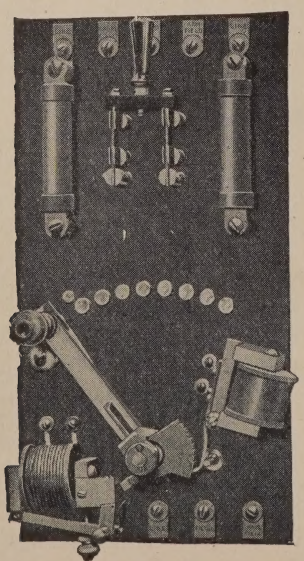
For Machine Tools, Etc.

Arranged with armature resistance for starting duty only, and field resistance for speed variation.

These ratings are on the basis of horsepower output at normal speed, and same output at maximum speed.

Code Word.	List No.	H. P.	2 to 1 Variation. 110 V.	220 V.	500 V.
Zacapeg	16147	½-1	$21.00	$21.00	$21.00
Zacapeh	16148	2	21.00	21.00	21.00
Zacapek	16149	3	22.00	22.00	22.00
Zacapel	16150	4	24.00	23.00	23.00
Zacapem	16151	5	24.00	23.00	23.00
Zacapen	16152	7½	30.50	27.00	27.00
Zacapep	16153	10	42.00	33.50	33.50
Zacaper	16154	15	46.00	39.00	39.00
Zacapes	16155	20	50.00	49.00	49.00
Zacapet	16156	25	91.00	52.00	52.00
Zacapev	16157	30	91.00	62.00	58.00
Zacapew	16158	35	110.00	83.00	83.00
Zacapex	16159	40	.....	100.00	100.00
Zacapey	16160	50	.....	122.00	111.00
			3 to 1 Variation.		
		H. P.	110 V.	220 V.	500 V.
Zacapez	16161	½-1	$24.00	$24.00	$24.00
Zacapi	16162	2	24.00	24.00	24.00
Zacapib	16163	3	25.00	25.00	25.00
Zacapic	16164	4	29.00	25.00	25.00
Zacapid	16165	5	29.00	25.00	25.00
Zacapif	16166	7½	36.50	33.00	33.00
Zacapig	16167	10	47.00	36.50	36.50
Zacapih	16168	15	51.00	43.00	43.00
Zacapik	16169	20	53.00	53.00	51.00
Zacapil	16170	25	97.00	58.00	58.00
Zacapim	16171	30	97.00	67.00	67.00
Zacapin	16172	35	120.00	92.00	92.00
Zacapip	16173	40	.....	110.00	110.00
Zacapir	16174	50	.....	137.00	126.00
			4 to 1 Variation.		
		H. P.	110 V.	220 V.	500 V.
Zacapis	16175	½-1	$25.00	$25.00	$26.00
Zacapit	16176	2	25.00	25.00	26.00
Zacapiv	16177	3	27.00	27.00	27.00
Zacapiw	16178	4	31.00	28.00	28.00
Zacapix	16179	5	31.00	28.00	28.00
Zacapiy	16180	7½	38.00	36.00	36.00
Zacapiz	16181	10	49.00	40.00	40.00
Zacapo	16182	15	55.00	45.00	45.00
Zacapob	16183	20	63.00	61.00	61.00
Zacapoc	16184	25	107.00	66.00	70.00
Zacapod	16185	30	111.00	75.00	75.00
Zacapof	16186	35	135.00	112.00	112.00
Zacapog	16187	40	.....	125.00	125.00
Zacapoh	16138	50	.....	152.00	141.00

We cannot fill orders for this apparatus unless given the maximum field current of the motor and the number of ohms necessary for insertion in the shunt field of the motor to increase the speed the desired amount. Always specify voltage.



C. AND H. UNIVERSAL MOTOR SPEED REGULATOR.

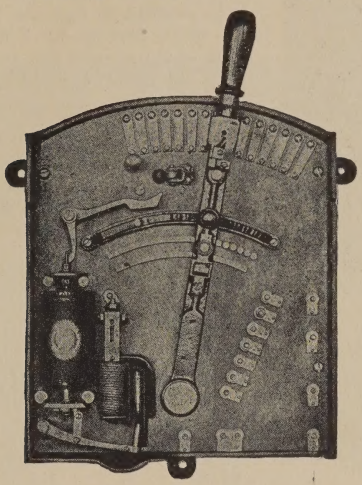
		H. P.	110 Volts. Fan.	110 Volts. Machine.	220 Volts. Fan.	220 Volts. Machine.
			Zacapuc	Zacapud	Zacapuf	Zacapug
Zacapok	16189	¼	$27.50	$27.50	$27.50	$27.50
Zacapol	16190	½	30.00	30.00	30.00	30.00
Zacapom	16191	1	35.00	40.00	35.00	40.00
Zacapon	16192	2	42.00	47.00	42.00	47.00
Zacapop	16193	3	45.00	50.00	45.00	50.00
Zacapor	16194	5	70.00	72.00	70.00	82.00
Zacapos	16195	7½	90.00	90.00	90.00	102.00
Zacapot	16196	10	100.00	100.00	96.00	108.00
Zacapov	16197	15	155.00	155.00	116.00	116.00
Zacapow	16198	20	180.00	190.00	150.00	160.00
Zacapox	16199	25	240.00	240.00	185.00	185.00
Zacapoy	16200	30	264.00	264.00	207.00	207.00
Zacapoz	16201	35	300.00	300.00	275.00	275.00
Zacapu	16202	40	335.00	335.00	320.00	320.00
Zacapub	16203	50	410.00	410.00	380.00	380.00

Prices on 500 Volt on application. In sizes over 5 H. P. 110 V., 10 H. P. 220 V. and 15 H. P. 500 V. these regulators are equipped with renewable segments. The smaller sizes have button contacts, but if desired renewable segments will be furnished at an additional price. The style of front furnished varies with the current carrying capacity required. Includes every device necessary for the protection of a motor.

CUTLER-HAMMER ENCLOSED NON-REVERSIBLE COMPOUND CONTROLLERS.

"CARPENTER" TYPE. FOR PRINTING PRESSES, MACHINE TOOLS, ETC.

(Patents Issued and Pending.)



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Style "P. B." Underload, Overload and Pushbutton Release, with Dynamic Brake. Regulation through armature and shunt field.

Code Word.	List No.	H. P.	Front and Resistance Separate. List Price, Each. 110 V.	220 V.	500 V.
Zacutav	7397	½	$101.70	$104.70	$112.50
Zacutaw	7398	1	105.00	108.00	115.50
Zacutax	7399	2	107.70	110.70	117.00
Zacutay	7400	3	114.00	117.00	122.50
Zacutaz	7401	4	120.00	123.00	129.50
Zacute	7402	5	126.00	129.00	136.50
Zacuteb	7403	7½	143.50	146.50	157.00
Zacutec	7404	10	163.00	166.00	173.50
Zacuted	7405	15	193.00	199.00	205.00
			Front and Resistance Together. 110 V.	220 V.	500 V.
Zacutef	7406	½	105.70	108.70	116.50
Zacuteg	7407	1	109.00	112.00	119.50
Zacuteh	7408	2	115.70	118.70	125.00
Zacutek	7409	3	122.00	125.00	130.50
Zacutel	7410	4	130.00	133.00	139.50
Zacutem	7411	5	136.00	139.00	146.50
Zacuten	7412	7½	154.50	157.50	168.00
Zacutep	7413	10	175.00	178.00	185.50
Zacuter	7414	15	207.00	213.00	219.00

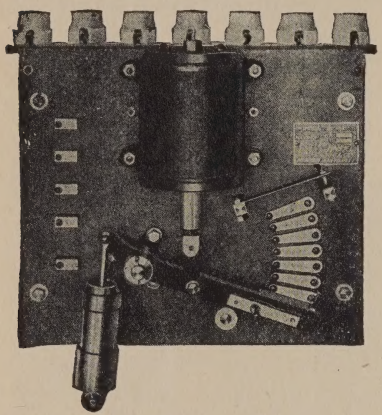
Shipping weight, front and resistance—½ H. P., 135; 1 H. P., 145; 2 H. P., 165; 3 H. P., 180; 4 H. P., 200; 5 H. P., 200; 7½ H. P., 255; 10 H. P., 295; 15 H. P., 390.

In general the most convenient arrangement is to have the front and armature resistance separate. In some instances, however, it is desirable to have the front and resistance mounted together. The above price list gives the cost of each arrangement.

C. AND H. SELF-STARTERS.

FOR NON-REVERSIBLE MOTORS OPERATING BELTED ELEVATORS, PUMPS, ETC.

This device is designed to automatically start and stop a motor. It is built in two different styles.



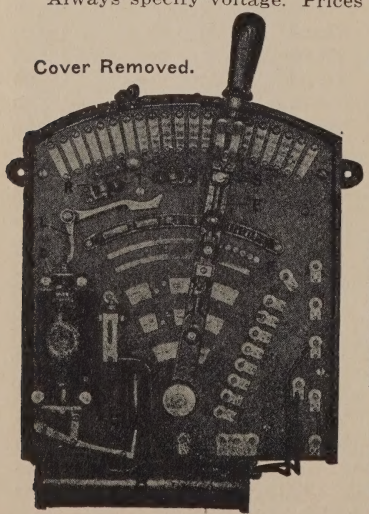
These list prices include an independent Solenoid controlled Switch for opening and closing the circuit automatically. Under certain conditions, where it is desired to operate the self-starter and handle the main current by a manually controlled switch, it is obvious that the type No. 74 Solenoid Switch may be dispensed with, and deduction from list prices may then be made as follows:

H. P.	110 Volts.	220 Volts.	500 Volts.
1 to 5.....	$17.00	$19.00	$29.00
7½ to 10.....	20.00	22.00	29.00
15.....	38.00	22.00	29.00
20	....	22.00	29.00

Self-starters from 1 to 3 H. P. when used in connection with the double pole float switch do not require the type No. 74 Solenoid Switch.

Code Word.	List No.	H. P.	110 Volts	Front.	220 Volts.	Front.	500 Volts.	Front.
Zacanuv	16120	1	$70.00	A	$74.00	A	$88.00	A
Zacanuw	16121	2	70.00	A	75.00	A	88.00	A
Zacanux	16122	3	72.00	A	77.00	A	90.00	A
Zacanuy	16123	4	74.00	A	80.00	A	95.00	A
Zacanuz	16124	5	76.00	A	85.00	A	98.00	A
Zacapa	16125	7½	90.00	B	95.00	B	105.00	B
Zacapab	16126	10	95.00	B	100.00	B	105.00	B
Zacapac	16127	15	120.00	B	100.00	B	110.00	B
Zacapad	16128	20	250.00	D	115.00	B	120.00	B
Zacapaf	16129	25	270.00	D	300.00	D	250.00	D
Zacapag	16130	30 to 45	300.00	D	300.00	D	280.00	D
Zacapah	16131	50 to 55	340.00	D	330.00	D	350.00	D
Zacapak	16132	60 to 75	590.00	D	360.00	D	350.00	D
Zacapal	16133	80 to 100	650.00	D	450.00	D	420.00	D
Zacapam	16134	115	650.00	D	710.00	D	450.00	D
Zacapan	16135	125	790.00	D	730.00	D	490.00	D
Zacapap	16136	140	840.00	D	780.00	D	520.00	D
Zacapar	16137	150	1080.00	D	800.00	D	550.00	D

Always specify voltage. Prices above 150 H. P. on application.



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C. AND H. ENCLOSED REVERSIBLE COMPOUND CONTROLLERS.

"Carpenter" Type. For Printing Presses, Machine Tools, Etc.

		H. P.	Code Word. Zacapec. 110 Volts.	Code Word. Zacaped. 220 Volts.	Code Word. Zacapef. 500 Volts.
Zacapas	16138	½	$119.20	$122.20	$130.00
Zacapat	16139	1	122.50	125.50	133.00
Zacapav	16140	2	125.50	128.20	134.50
Zacapaw	16141	3	131.50	134.50	140.00
Zacapax	16142	4	137.50	140.50	147.00
Zacapay	16143	5	143.50	146.50	154.00
Zacapaz	16144	7½	160.50	163.50	174.00
Zacape	16145	10	181.00	184.00	191.50
Zacapeb	16146	15	211.00	217.00	223.00

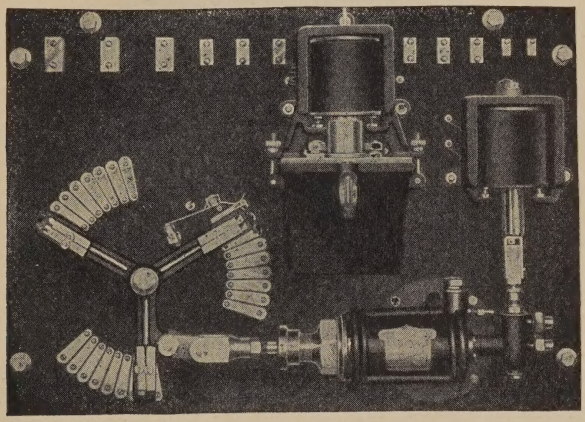
Above prices cover supplying front and resistance separate, this being the arrangement usually required for printing press or machine tool service. If it is desired to have front and resistance mounted together, a slight additional charge is made to cover added cost.

CUTLER-HAMMER SELF STARTERS.

FOR ALTERNATING CURRENT MOTORS.

SLIP RING TYPE.

Two or three phase, accelerating with 150 per cent normal torque and approximately 150 per cent normal current.



COMPRESSION TANK SYSTEM.

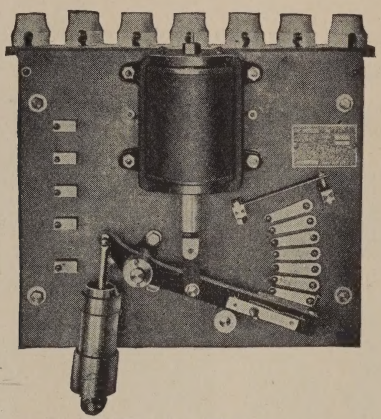
	110 Volts.		220 Volts.		500 Volts.	
H. P.	Self Starter.	Pressure Regulator.	Self Starter.	Pressure Regulator.	Self Starter.	Pressure Regulator.
5 to 10	$275.00	$40.00	$275.00	$40.00	$275.00	$40.00
15 to 20	320.00	40.00	280.00	40.00	280.00	40.00
25	330.00	40.00	290.00	40.00	290.00	40.00
30 to 35	.....	....	335.00	40.00	335.00	40.00
40 to 50	.....	....	485.00	40.00	335.00	40.00
60	.....	....	550.00	40.00	550.00	40.00
75	.....	....	640.00	40.00	640.00	40.00
100	.....	....	700.00	40.00	700.00	40.00
125	.....	....	950.00	40.00	850.00	40.00
150	.....	....	1050.00	40.00	950.00	40.00

OPEN TANK SYSTEM.

	110 Volts.		220 Volts.		500 Volts.	
H. P.	Self Starter.	Float Switch.	Self Starter.	Float Switch.	Self Starter.	Float Switch.
5 to 10	269.00	8.00	269.00	8.00	269.00	8.00
15 to 20	314.00	8.00	274.00	8.00	274.00	8.00
25	324.00	8.00	284.00	8.00	284.00	8.00
30 to 35	.....	....	329.00	8.00	329.00	8.00
40 to 50	.....	....	479.00	8.00	329.00	8.00
60	.....	....	550.00	8.00	550.00	8.00
75	.....	....	640.00	8.00	640.00	8.00
100	.....	....	700.00	8.00	700.00	8.00
125	.....	....	950.00	8.00	850.00	8.00
150	.....	....	1050.00	8.00	950.00	8.00

CUTLER-HAMMER SELF-STARTERS.

FOR NON-REVERSIBLE MOTORS OPERATING BELTED ELEVATORS, PUMPS, ETC.



TYPE "A" FRONT.

Note.—These list prices include an independent solenoid controlled switch for opening and closing the circuit automatically. Under certain conditions, where it is desired to operate the self-starter and handle the main current by a manually controlled switch, it is obvious that the solenoid switch may be dispensed with, and deduction from list prices may then be made as follows:

H. P.	110 Volts.	220 Volts.	500 Volts.
1 to 5	$17.00	$19.00	$29.00
7½ to 10	20.00	22.00	29.00
15	38.00	22.00	29.00
20	....	22.00	29.00

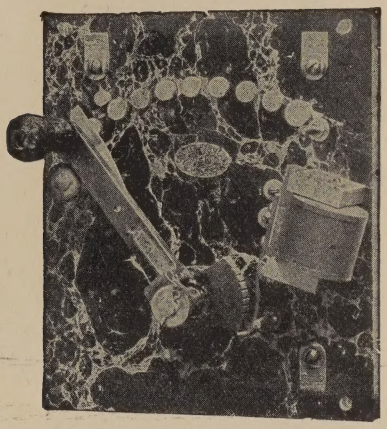
Self-starters from 1 to 3 H. P. when used in connection with the double pole float switch do not require the type No. 74 solenoid switch.

			List Price, Each.					
			Volts.					
Code Word.	List No.	H. P.	110.	Front.	220	Front.	500	Front.
Zacutes	7415	1	$70.00	A	$74.00	A	$88.00	A
Zacutet	7416	2	70.00	A	75.00	A	88.00	A
Zacutev	7417	3	72.00	A	77.00	A	90.00	A
Zacutew	7418	4	74.00	A	80.00	A	95.00	A
Zacutex	7419	5	76.00	A	85.00	A	98.00	A
Zacutey	7420	7½	90.00	B	95.00	B	105.00	B
Zacutez	7421	10	95.00	B	100.00	B	105.00	B
Zacuti	7422	15	120.00	B	100.00	B	110.00	B
Zacutib	7423	20	250.00	D	115.00	B	120.00	B
Zacutic	7424	25	270.00	D	300.00	D	250.00	D
Zacutid	7425	30 to 45	300.00	D	300.00	D	280.00	D
Zacutif	7426	50 to 55	340.00	D	330.00	D	350.00	D
Zacutig	7427	60 to 75	590.00	D	360.00	D	350.00	D
Zacutih	7428	80 to 100	650.00	D	450.00	D	420.00	D
Zacutik	7429	115	780.00	D	710.00	D	450.00	D
Zacutil	7430	125	790.00	D	730.00	D	490.00	D
Zacutim	7431	140	840.00	D	780.00	D	520.00	D
Zacutin	7432	150	1080.00	D	800.00	D	550.00	D

Prices above 150 H. P. furnished on application.

CUTLER-HAMMER MOTOR SPEED-REGULATORS.

WITH AUTOMATIC RELEASE.



Automatically holds the lever squarely over each segment and opens the circuit on failure of current supply. Style of front varies with current carrying capacity required.

All speed regulators above 5 H. P. 110 volts, 10 H. P. 220 volts, and 15 H. P. 500 volts, are equipped with renewable segments. Smaller sizes have button contacts, but if desired renewable segments will be furnished.

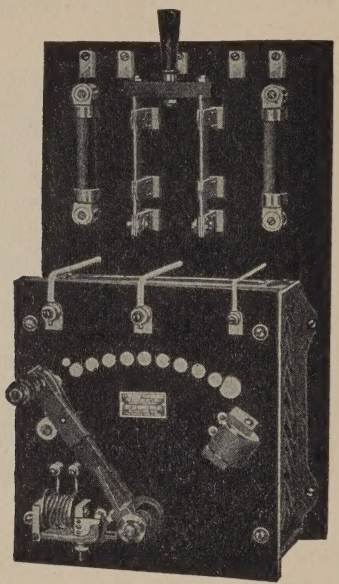
H. P.	110 Volts.		220 Volts.		500 Volts.	
	Ventilating Fan Type.	Machine Type.	Ventilating Fan Type.	Machine Type.	Ventilating Fan Type.	Machine Type.
¼	$10.00	$10.00	$10.00	$10.00	$11.00	$11.00
½	11.00	11.00	11.00	11.00	12.00	12.00
1	13.00	18.00	13.00	18.00	13.00	18.00
2	20.00	25.00	20.00	25.00	20.00	25.00
3	25.00	30.00	25.00	30.00	25.00	30.00
5	38.00	40.00	38.00	50.00	50.00	50.00
7½	50.00	50.00	50.00	62.00	60.00	62.00
10	65.00	65.00	65.00	65.00	75.00	85.00
15	90.00	90.00	70.00	70.00	92.00	102.00
20	105.00	115.00	90.00	100.00	110.00	120.00
25	135.00	135.00	130.00	130.00	130.00	130.00
30	150.00	150.00	140.00	140.00	140.00	140.00
35	180.00	180.00	180.00	180.00	180.00	180.00
40	220.00	220.00	200.00	200.00	200.00	200.00
50	270.00	270.00	250.00	250.00	250.00	250.00

Prices for regulators above 50 H. P. furnished on application.

For speed regulators without automatic release deduct from above list prices as follows:

¼ to 1 H. P. inclusive	2.00
2 to 3 H. P. inclusive	3.00
5 to 10 H. P. inclusive	4.00
15 to 20 H. P. inclusive	6.00
25 to 30 H. P. inclusive	10.00
40 to 50 H. P. inclusive	15.00

CUTLER-HAMMER UNIVERSAL MOTOR STARTER.

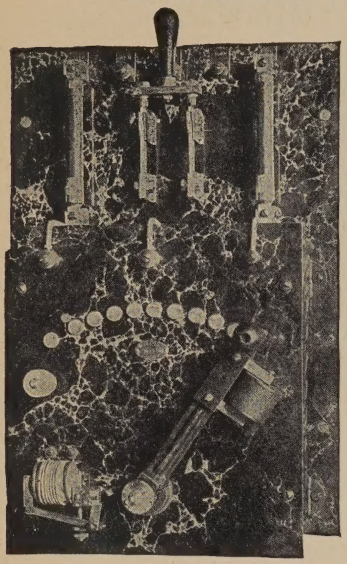


Comprises every necessary device for the complete installation of a motor. Absolutely protects the motor. Includes knife switch, fuses, overload and current indicator, and magnetic release.

H. P.	Volts, 125	Front.	Volts, 240	Front.	Volts, 500	Front.
¼ to 2	$20.00	A	$20.00	A	$20.00	A
3	21.00	A	21.00	A	21.00	A
5	28.00	B	28.00	A	25.00	A
7½	33.00	B	30.00	B	25.00	A
10	52.00	C	31.00	B	31.00	B
15	60.00	C	35.00	B	35.00	B
20	65.00	C	59.00	C	38.00	B
25	86.00	D	63.00	C-D	59.00	C
30	90.00	D	65.00	C-D	63.00	C-D
35	92.00	D	65.00	C-D	63.00	C-D
40			90.00	D	80.00	C-D
50			95.00	D	85.00	D

Prices above 50 H. P. on application.

C. & H. UNIVERSAL MOTOR STARTER.

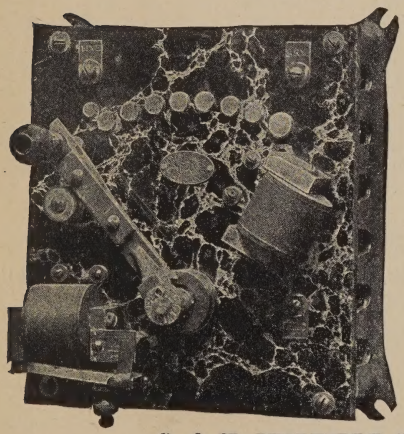


Includes Knife Switch and Fuses, Overload and Current Indicator, and Magnetic Release.

Code Word.	List No.	H. P.	List Prices. Code Wd. Derelict. 125 V.	Code Wd. Deride. 240 V.	Code Wd. Derision. 500 V.
Zabecew	49466	¼ to 2	$20.00	$20.00	$20.00
Zabecex	49467	3	21.00	21.00	21.00
Zabecez	49468	5	28.00	28.00	25.00
Zabeci	49469	7½	33.00	30.00	25.00
Zabecib	49470	10	52.00	31.00	31.00
Zabecid	49471	15	60.00	35.00	35.00
Zabecif	49472	20	65.00	59.00	38.00
Zabecig	49473	25	86.00	63.00	59.00
Zabecih	49474	30	90.00	65.00	63.00
Zabecik	49475	35	92.00	65.00	63.00
Zabecil	49476	40		90.00	80.00
Zabecim	49477	50		95.00	85.00

Prices above 50 H. P. on application.

C. & H. OVERLOAD MOTOR STARTERS.



		H. P.	Code Wd. Derisive. 125 V.	Code Wd. Derive. 240 V.	Code Wd. Derivation. 500 V.
Zabecin	49478	½ to 2	$10.60	$10.60	$11.00
Zabecip	49479	3	11.30	11.30	11.50
Zabecir	49480	4	16.00	13.00	13.00
Zabecis	49481	5	16.20	15.00	15.00
Zabecit	49482	7½	24.40	19.60	19.60
Zabeciv	49483	10	30.20	21.00	21.00
Zabeciw	49484	15	37.00	28.00	28.00
Zabecix	49485	20	40.00	37.00	34.00
Zabeciz	49486	25	46.00	40.00	37.00
Zabeco	49487	30	54.00	48.00	44.00
Zabecob	49488	35	58.00	52.00	50.00
Zabecod	49489	40	110.00	58.00	56.00
Zabecof	49490	50	130.00	70.00	68.00

The overload movement can be set for any flow of current or degree of overload not exceeding 50 per cent. above the rated capacity of the motor, by means of the accurately calibrated scale. This scale can also be used to determine the amount of current being consumed by the motor.

C. & H. MULTIPLE SWITCH STARTING RHEOSTATS.

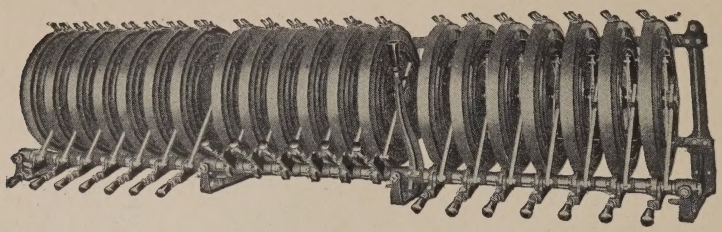
WITH AUTOMATIC RELEASE.

List Prices.

		H. P.	Code Word. Derivative. 110 V.	Code Word. Derogate. 220 V.	Code Word. Derogatory. 500 V.
Zabecog	49491	10	$50.00	$50.00	$50.00
Zabecoh	49492	15	54.00	54.00	54.00
Zabecok	49493	20	60.00	60.00	60.00
Zabecol	49494	25	70.00	70.00	70.00
Zabecom	49495	30	70.00	70.00	70.00
Zabecon	49496	35	70.00	70.00	70.00
Zabecop	49497	40	90.00	90.00	90.00
Zabecor	49498	45	100.00	90.00	90.00
Zabecos	49499	50	110.00	90.00	90.00
Zabecot	49500	55	120.00	100.00	100.00
Zabecov	49501	60	130.00	110.00	100.00
Zabecow	49502	65	140.00	120.00	110.00

Prices above 65 H. P. furnished on application.

C. AND H. "SIMPLICITY" DIMMERS.



INTERLOCKING TYPE, 2 WIRE FOR 220 VOLT CIRCUITS.

Code Word.	List No.	No. 16 C. P. Lights.	Maximum Amperes. First Step.	Maximum Amperes. Last Step.	No. Plates.	List Price, Each.
Zacanis	16078	20	5.	1.25	1	$27.00
Zacanit	16079	30	7.5	1.88	1	27.00
Zacaniv	16080	40	10.	2.5	1	27.00
Zacaniw	16081	50	12.5	3.13	1	27.00
Zacanix	16082	60	15.	3.75	2	45.00
Zacaniy	16083	80	20.	5.	2	45.00
Zacaniz	16084	100	25.	6.25	2	45.00
Zacano	16085	125	31.8	7.8	3	63.00
Zacanob	16086	150	37.5	9.4	3	63.00
Zacanoc	16087	175	43.8	11.	4	80.00
Zacanod	16088	200	50.	12.5	4	80.00

INTERLOCKING TYPE, 3 WIRE FOR 110-220 VOLT CIRCUITS.

		Total 16 C. P. Lights.	No. Lights Each Side Circuit.	Max. Amp., Each Side. First Step.	Max. Amp., Each Side. Last Step.	No. Plates.	List Price, Each.
Zacanof	16089	20	10	5.	1.25	2	$45.00
Zacanog	16090	30	15	7.5	1.88	2	45.00
Zacanoh	16091	40	20	10.	2.5	2	45.00
Zacanok	16092	50	25	12.5	3.12	2	45.00
Zacanol	16093	60	30	15.	3.75	2	45.00
Zacanom	16094	80	40	20.	5.	2	45.00
Zacanon	16095	100	50	25.	6.25	2	45.00
Zacanop	16096	124	62	31.	7.8	4	80.00
Zacanor	16097	150	75	37.5	9.4	4	80.00
Zacanos	16098	174	87	43.5	11.	4	80.00
Zacanot	16099	200	100	50.	12.5	4	80.00

Price for Dimmers for 2 Wire 110 Volt Circuits, and for Non-Interlocking Types, on application.

SINGLE PLATE DIMMERS.

FOR MOUNTING FLAT AGAINST WALL OR SWITCHBOARD.

2 WIRE FOR 110 VOLT CIRCUITS.

		No. 16 C. P. Lights.	Maximum Amperes. First Step.	Maximum Amperes. Last Step.	Size Plate.	List Price, Each.
Zacanov	16100	4	2.	.5	9″	$9.50
Zacanow	16101	6	3.	.75	9″	9.50
Zacanox	16102	10	5.	1.25	9″	9.50
Zacanoy	16103	12	6.	1.5	12″	13.50
Zacanoz	16104	15	7.5	1.88	12″	13.50
Zacanu	16105	20	10.	2.5	12″	13.50
Zacanub	16106	25	12.5	3.12	16″	19.00
Zacanuc	16107	30	15.	3.75	16″	19.00
Zacanud	16108	40	20.	5.	16″	19.00
Zacanuf	16109	50	25.	6.25		

2 WIRE FOR 220 VOLT CIRCUITS.

Zacanug	16110	4	1.	.25	12″	$13.50
Zacanuh	16111	6	1.5	.37	12″	13.50
Zacanuk	16112	10	2.5	.62	12″	13.50
Zacanul	16113	12	3.	.75	12″	13.50
Zacanum	16114	15	3.75	.93	12″	13.50
Zacanun	16115	20	5.	1.25	12″	13.50
Zacanup	16116	25	6.25	1.56	16″	19.00
Zacanur	16117	30	7.5	1.87	16″	19.00
Zacanus	16118	40	10.	2.5	16″	19.00
Zacanut	16119	50	12.5	3.12		

Prices for Dimmers for 2 Wire 50 Volt Circuits, and for Mounting at Right Angles, on application.

C. AND H. "SIMPLICITY" DIMMERS.

SINGLE PLATE TYPE NO. 4.

FOR THEATRES, LODGE ROOMS, CLUBS, HALLS, RESIDENCES, ETC.

For Mounting Flat Against the Wall or Switchboard.

2 WIRE FOR 50 VOLT CIRCUIT.

Code Word.	List No.	No. 16 C. P. Lights.	Maximum Amperes. First Step.	Maximum Amperes. Last Step.	Size Plates.	List Price, Each.
Zacutip	7465	4	4.	1.	9 inches	$11.75
Zacutir	7466	6	6.	1.25	9 inches	11.75
Zacutis	7467	10	10.	2.5	9 inches	11.75
Zacutit	7468	12	12.	3.	9 inches	11.75
Zacutiv	7469	15	15.	3.75	12 inches	15.75
Zacutiw	7470	20	20.	5.	12 inches	15.75
Zacutix	7471	25	25.	6.25	12 inches	15.75
Zacutiy	7472	30	30.	7.5	16 inches	21.25
Zacutiz	7473	40	40.	10.	16 inches	21.25
Zacuto	7474	50	50.	12.5	16 inches	21.25

2 WIRE FOR 110 VOLT CIRCUIT.

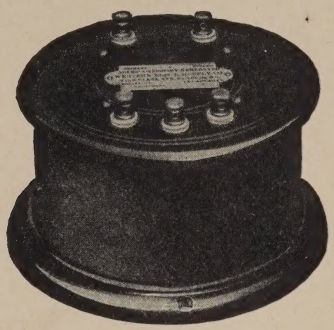
Zacutob	7475	4	2.	.5	9 inches	11.75
Zacutoc	7476	6	3.	.75	9 inches	11.75
Zacutod	7477	10	5.	1.25	9 inches	11.75
Zacutof	7478	12	6.	1.50	9 inches	11.75
Zacutog	7479	15	7.5	1.88	12 inches	15.75
Zacutoh	7480	20	10.	2.5	12 inches	15.75
Zacutok	7481	25	12.5	3.12	12 inches	15.75
Zacutol	7482	30	15.	3.75	16 inches	21.25
Zacutom	7483	40	20.	5.	16 inches	21.25
Zacuton	7484	50	25.	6.25	16 inches	21.25

2 WIRE FOR 220 VOLT CIRCUIT.

Zacutop	7485	4	1.	.25	12 inches	15.75
Zacutor	7486	6	1.5	.37	12 inches	15.75
Zacutos	7487	10	2.5	.62	12 inches	15.75
Zacutot	7488	12	3.	.75	12 inches	15.75
Zacutov	7489	15	3.75	.93	12 inches	15.75
Zacutow	7490	20	5.	1.25	12 inches	15.75
Zacutox	7491	25	6.25	1.56	12 inches	15.75
Zacutoy	7492	30	7.5	1.87	16 inches	21.25
Zacutoz	7493	40	10.	2.5	16 inches	21.25
Zacutu	7494	50	12.5	3.12	16 inches	21.25

Write for "Simplicity Type" Catalogue.
Get Latest Data on Battery Charging Outfits.

ADAMS SECONDARY GENERATOR.



The Adams Secondary Generator is designed to take the place of primary batteries on bell or annunciator systems. It can only be used in connection with alternating current where a day and night circuit is maintained. The installation requires very little work, no changes in the wiring being necessary.

In order that bell or annunciator systems will operate satisfactorily on alternating current, it is necessary to adjust them slightly. This is done by increasing or decreasing the tension on the vibrating spring. All bells must be wired in multiple and adjusted according to the number of bells on the circuit. With this device it is possible to operate the largest bell or annunciator systems with perfect ease, without any maintenance expenses whatsoever.

The actual day loss of the Generator represents an effective current value at 100 volts of one-hundredth of an ampere, or about the sixtieth part of the current consumed by a 16 candle power lamp.

This Generator is especially adapted for use in large office buildings and hotels, but can be used to good advantage in any residence in which there are a number of call bells.

The following table of voltages, Amperages and prices applies to Adams Secondary Generator as now manufactured:

			Primary.		Secondary.		List Price,
Code Word.	List No.	Mfr. No.	Voltage.	Frequency Cycles.	Voltage.	Short Circuit Amps.	Each.
Zaboror	**10551**	1	100-125	60	6—12—18	2.5=1.5=1	**$12.50**
Zaboros	**10552**	1	100-125	133	8—16—24	1.9=1.1=73	**12.50**
Zaborot	**10553**	2	100-125	60	8—16—24	4.2=2.5=1.5	**15.00**
Zaborov	**10554**	2	100-125	133	11—22—33	3.1=1.67=1.13	**15.00**
Zaborow	**10555**	12	100-125	60	8—16—24	10.5=10=9	**18.00**
Zaborox	**10556**	12	100-125	133	11—22—33	9=10.1=10.25	**18.00**
Zaboroy	**10557**	19	100-125	60	10—20—30	115=85	**30.00**
Zaboroz	**10558**	20	100-125	60	5—10—15	100=61=47	**40.00**

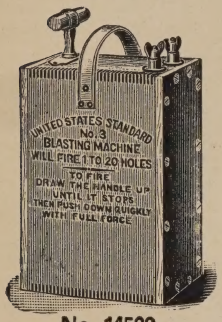
BLASTING MACHINES AND SUPPLIES.

No. 14526.

"PULL UP" BLASTING MACHINE.

MADE IN THREE SIZES.

Code Word.	List No.	Mfr. No.		List Price Each.
Disappoints	14526	3	Will fire 20 to 30 holes....	$50.00
Disapproved	14527	4	Will fire 40 to 50 holes....	100.00
Disarms	14528	5	Will fire 75 to 100 holes....	150.00



No. 14529.

UNITED STATES STANDARD BLASTING MACHINES.

MADE IN TWO SIZES.

Disarranged	14529	3	Will fire 1 to 20 holes....	50.00
Disarrays	14530	4	Will fire 40 to 50 holes....	100.00

These machines are the strongest and most powerful ever made for Electric Blasting. They are especially adapted for submarine blasting, large railroad quarrying and mining works.

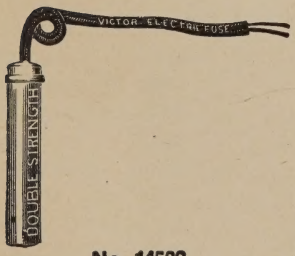
No. 14531.

VICTOR BLASTING MACHINE.

ONE SIZE ONLY.

Disasters	14531	1	Will fire 5 to 8 holes.....	30.00

Weighs only 15 pounds; adapted for prospecting, stump blasting, well sinking, etc.



No. 14532.

ELECTRIC PLATINUM FUSES.

IMPROVED WATER-PROOF INSULATION.

				Single Strength Ordinary Quality Equal to Quintuple Force per 100.	Double Strength Extra Quality Equal to Quintuple Force per 100.
Disastrous	14532	4	feet wires...	$6.00	$7.50
Disavows	14533	6	" " ...	7.08	8.58
Disbands	14534	8	" " ...	9.16	9.66
Disbarks	14535	10	" " ...	9.24	10.74
Disbeliefs	14536	12	" " ...	10.32	11.82
Disbelieved	14537	14	" " ...	11.40	12.90
Disburdens	14538	16	" " ...	12.48	13.98
Disbursed	14539	18	" " ...	13.56	15.06
Discerns	14540	20	" " ...	14.64	16.14

No. 14541.

LEADING WIRE.

Discharged	14541	.....Per lb.	.80

THE "ELECTRA" NUERNBERG CARBONS.

FOR OPEN ARC DIRECT CURRENT ARC LAMPS.

SOFT CORED UPPERS.

Inch Measurement. Diam.	Length.	Per 1,000.
7/16x	7½ inch	$20.00
½ x	7½ inch	22.00
9/16x	7½ inch	23.00
⅝ x	7½ inch	27.60
⅝ x	6 inch	22.00
11/16x	7½ inch	30.00
11/16x	8 inch	33.30
13/16x	8 inch	37.00
7/16x	10 inch	24.75
½ x	10 inch	27.50
9/16x	10 inch	28.10
⅝ x	10 inch	32.80
11/16x	10 inch	38.10
13/16x	10 inch	43.90
7/16x	12 inch	27.00
½ x	12 inch	29.60
9/16x	12 inch	30.80
⅝ x	12 inch	36.50

SOLID LOWERS.

Inch Measurement. Diam.	Length.	Per 1,000.
5/16x	6 inch	$13.00
⅜ x	6 inch	14.60
7/16x	6 inch	15.00
7/16x	7 inch	16.00
½ x	6 inch	16.50
½ x	7 inch	18.00
9/16x	7 inch	21.00
⅝ x	7 inch	24.00
5/16x	7½ inch	17.00
⅜ x	7½ inch	18.50
7/16x	7½ inch	18.75
½ x	7½ inch	20.00
⅝ x	7½ inch	24.50
15/32x	8 inch	24.00
½ x	8½ inch	22.70
5/16x	9½ inch	20.00
⅜ x	9½ inch	22.00
7/16x	9½ inch	23.10
½ x	9½ inch	25.20
15/32x	10 inch	25.20
½ x	10 inch	26.20
5/16x	12 inch	20.00
7/16x	12 inch	26.80
½ x	12 inch	28.20

"ELECTRA" CORED CARBONS.

FOR OPEN ARC ALTERNATING CURRENT ARC LAMPS.

Millimeters.	Inches.	
15x160	(19/32x 6¼)	27.60
13x175	(½ x 7)	25.80
15x175	(19/32x 7)	28.80
16x175	(⅝ x 7)	30.70
12x190	(15/32x 7½)	25.80
13x190	(½ x 7½)	26.00
15x190	(19/32x 7½)	31.40
11x240	(7/16x 9½)	27.60
13x240	(½ x 9½)	30.25
15x240	(19/32x 9½)	35.40
16x240	(⅝ x 9½)	38.50
13x255	(½ x10)	32.50
15x255	(19/32x10)	36.50
16x255	(⅝ x10)	40.00
13x305	(½ x12)	35.70
14x305	(9/16x12)	37.30
16x305	(⅝ x12)	45.00

"ELECTRA" CARBONS.

FOR ENCLOSED OR ALTERNATING CURRENT ARC LAMPS.

Solid Carbons.

9/16x	12	45.00
⅝ x	12	50.00
½ x	12	37.90
	10	34.50
	9½	32.50
	8	28.00
	6	20.50
	5	16.75
7/16x	12	31.40
	10	28.50
	9½	27.75
⅜ x	12	29.50
	10	27.50
	9½	27.00
	6	15.00

Cored Carbons.

½ x	12	39.00
½ x	10	36.30
	8	29.50
7/16x	12	34.00
7/16x	9½	29.20
⅜ x	12	31.00
⅜ x	9½	28.30

COLUMBIA CARBONS.

This brand of Carbon is, without question, superior to all others in length of life efficiency and clean burning qualities.

FOR ENCLOSED ARC LAMPS.

CORED.

Code Word.	List No.	Size, Inches.	1,000 Lots of One Size. Per 1000.	500 Lots or Less Than 1000. Per 1000	100 Lots or Less Than 500. Per 100
Zacicel	19651	½x12	$59.00	$64.00	$7.50
Zacicem	19652	½x10	53.00	58.00	7.00
Zacicen	19653	½x 9½	49.50	55.00	6.50
Zacicep	19654	7/16x12	50.00	55.00	6.50
Zacicer	19655	7/16x 9½	43.00	48.00	5.60
Zacices	19656	⅜x12	48.00	53.00	6.30

SOLID.

Zacicet	19657	½x12	55.00	60.00	7.00
Zacicev	19658	½x10	50.00	55.00	6.50
Zacicew	19659	½x 9½	46.50	52.00	6.00
Zacicex	19660	7/16x12	46.00	51.00	6.00
Zacicey	19661	7/16x 9½	40.00	45.00	5.30
Zacicez	19662	⅜x12	44.00	49.00	5.80

Other sizes at proportionate prices.

COLUMBIA PROJECTOR CARBONS.

FOR STAGE LAMPS, STEREOPTICONS AND PROJECTORS.

CORED.

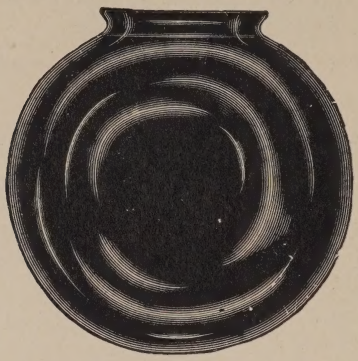
Zacici	19663	½x12	44.00	50.00	6.00
Zacicib	19664	½x 7½	31.00	35.00	4.30
Zacicic	19665	9/16x12	46.00	52.00	6.50
Zacicid	19666	9/16x 7½	33.00	38.00	4.80
Zacicif	19667	⅝x12	56.00	62.00	7.50
Zacicig	19668	⅝x 7½	39.00	44.00	5.50

SOLID.

Zacicih	19669	½x12	40.00	45.00	5.50
Zacicik	19670	½x 7	26.00	30.00	3.80
Zacicil	19671	9/16x12	43.00	46.00	6.00
Zacicim	19672	9/16x 7	28.00	32.00	4.00
Zacicin	19673	⅝x12	52.00	60.00	7.00
Zacicip	19674	⅝x 7	32.00	36.00	4.50

Other sizes at proportionate prices.

OUTER ARC LAMP GLOBES.



EXTRA CHARGE FOR (PACKING) CASKS.

We are prepared to furnish outer Globes for any style or system of multiple or series circuit lamps, and will be glad to quote on same in large quantities.

In ordering please state clearly for what system they are to be used and the size of top and bottom openings, diameter and height, as well as complexion.

Code Word.	List No.		No.	List Price. Clear	Opal	Opalescent	Alabaster
Zabowal	11125	The Adams-Bagnall Elec. Co.	51	$7.00	$8.00	$9.00	$10.00
Zabowam	11126	The Adams-Bagnall Elec. Co.	52	10.00	11.00	12.00	12.00
Zabowan	11127	The Adams-Bagnall Elec. Co.	55	15.00	16.00	18.00	19.50
Zabowap	11128	The Adams-Bagnall Elec. Co.	57	10.00	11.00	12.00	12.00
Zabowar	11129	Belden, Jr., Ball Globe, 8x5	..	5.00	6.50	6.50	7.50
Zabowas	11130	Belden, Jr., Ball Globe, 14x14x6⅝	..	13.00	14.00	15.00	16.00
Zabowat	11131	Fort Wayne Elec. Works	..	16.00	17.00	18.00	22.00
Zabowav	11132	General Electric Co.	1	9.00	10.00	10.00	11.50
Zabowaw	11133	General Electric Co.	2	13.25	14.25	14.25	15.50
Zabowax	11134	General Incandescent Arc Light Co.	4	9.00	10.00	11.00	12.00
Zaboway	11135	General Incandescent Arc Light Co.	43	9.00	10.00	10.00	11.00
Zabowaz	11136	The Jandus Elec. Co.	1	9.00	10.00	11.00	12.00
Zabowe	11137	The Jandus Elec. Co.	9	10.00	11.00	11.00	12.00
Zaboweb	11138	The Jandus Elec. Co.	11	5.00	6.00	6.00	6.50
Zabowec	11139	Manhattan	300	7.20	12.00	12.00	12.00
Zabowed	11140	Perkins Elec. Switch Mfg. Co., 12x 12x5¾	..	9.00	10.00	10.00	12.00
Zabowef	11141	Toerring	..	9.00	12.00	12.00	12.00
Zaboweg	11142	Western Elec. Co., Cylinder	A	5.00	....	.....	6.00
Zaboweh	11143	Western Elec. Co., Cylinder	E	10.00	11.00	12.00	13.20
Zabowek	11144	Western Elec. Co., Cylinder	G	8.50	9.50	9.50	10.50
Zabowel	11145	Western Elec. Co., Cylinder	K	14.00	15.00	16.00	17.00
Zabowem	11146	Western Elec. Co., Cylinder	S	9.00	10.00	10.00	12.00
Zabowen	11147	Westinghouse Elec. & Mfg. Co.	1640	13.00	14.00	14.00	15.50
Zabowep	11148	Westinghouse Elec. & Mfg. Co.	1641	13.00	14.00	14.00	15.50

INNER ARC LAMP GLOBES.

All prices are invariably F. O. B. factory. No allowance for breakage. Our responsibility ceases when globes have been delivered in good condition to transportation company and receipted for by them.

Always order by number given in column, "Manufacturers' Listed Number of Globe," where given, and in case of other globes by lamp makers' designation of globe, together with dimensions of top, bottom and length.

LAMP MAKERS' DESIGNATION OF GLOBE.	Mfrs.' Listed No. of Globe	Outside Diam. of Top	Outside Diam. of Bottom	Length	No. of Globes in Pkg. and Cost of Pkg. No. of Dozen	Cost of Package	No. of Dozen	Cost of Package	Prices per Dozen. Clear Globes	Opalescent, Light Opal, Dense Opal.
Adams-Bagnall Electric Co., No. 10	...	2½	...	6½	3	30	12	60	$3.30	$3.90
Adams-Bagnall Electric Co., No. 11	...	2 13-16	1¼	6½	3	30	12	60	2.50	3.10
Adams-Bagnall Electric Co., No. 13	64	2½	...	6½	3	30	12	60	3.30	3.90
Adams-Bagnall Electric Co., No. 14	63	2¾	...	7½	3	40	..	..	3.30	3.90
Adams-Bagnall Electric Co., No. 15	128	2¾	1¼	7	..	..	12	60	2.50	3.10
Fort Wayne Electric Works, "Long"	...	1⅞	1 3-16	6½	3	30	12	60	2.50	3.10
Fort Wayne Electric Works, "Short"	...	1⅞	1 3-16	5⅞	3	30	12	60	2.50	3.10
Fort Wayne Electric Works, No. 6846	...	2¾	0	7½	3	30	12	60	3.30	3.90
General Electric Co., No. 23	...	2⅜	1 3-16	6½	3	30	12	60	2.50	3.10
General Electric Co., No. 25	...	2⅜	1 3-16	5⅞	3	30	12	60	2.50	3.10
General Electric Co., No. 26	...	2⅞	0	5¼	3	30	12	60	3.30	3.90
General Electric Co., No. 36	112	3¼	0	7⅜	3	40	..	..	3.30	3.90
General Electric Co., No. 39	124	3⅜	0	6	3	40	..	..	3.30	3.90
General Electric Co., No. 46	63	2¾	0	7½	3	40	..	..	3.30	3.90
General Electric Co., No. 49	116	2¾	0	8 15-16	3	40	..	..	3.30	3.90
General Electric Co., "K 105401"	...	3¼	0	7⅛	3	40	..	..	3.30	3.90
General Electric Co., "Double Carbon"	108	3 13-16	0	7⅞	3	40	..	..	4.00	4.30
General Electric Co., "Headlight"	107	53-100	1 3-16	4	..	..	12	40	2.50	3.10
General Electric Co., "K 107343"	...	...	...	...	..	..	..	..	...	...
General Incandescent Arc Light Co., No. 9	56	1 13-16	1 13-32	5¾	3	30	12	60	2.50	3.10
General Incandescent Arc Light Co., No. 10	...	1⅝	1⅛	5¾	3	30	12	60	2.50	3.10
General Incandescent Arc Light Co., No. 11	58	1 13-16	1 13-32	6⅜	3	30	12	60	2.50	3.10
General Incandescent Arc Light Co., No. 12	57	1 13-16	1 13-32	7	3	30	12	60	2.50	3.10
Helios-Upton Co., No. 6	87	3¼	0	8⅞	3	40	..	..	4.00	4.60
Helios-Upton Co., No. 7	...	3¼	0	8	3	40	..	..	3.30	3.90
Helios-Upton Co., No. 8	90	3¼	0	8⅞	3	40	..	..	3.30	3.90
Helios-Upton Co., No. 9	91	3	0	7¾	3	40	..	..	3.30	3.90
Helios-Upton Co., No. 10	92	3 1-16	0	8	3	40	..	..	3.30	3.90
Helios-Upton Co., No. 11	...	3 1-16	0	7 7-16	3	40	..	..	3.30	3.90
Helios-Upton Co., No. 12	...	4¼	0	4¾	3	40	..	..	4.00	4.60
Helios-Upton Co., No. 15	...	4½	0	3½	3	40	..	..	3.30	3.90
Helios-Upton Co., Style "M"	70	1¾	1 5-16	5¾	3	30	12	60	2.50	3.10
Helios-Upton Co., Style "P"	68	1¾	1¼	5 13-16	3	30	12	60	2.50	3.10
Helios-Upton Co., Style "P2"	102	1¾	1¼	5¾	3	30	12	60	2.50	3.10
Helios-Upton Co., Style "R"	88	2½	1¼	7	3	40	..	..	2.50	3.10
Helios-Upton Co., Style "T"	71	1¾	1¼	7	3	30	12	60	2.50	3.10
Helios-Upton Co., "6½"	...	...	...	6½	..	..	..	..	2.50	3.10
Imperial, No. 8	94	3⅛	0	8⅛	3	40	..	..	3.30	3.90
Imperial, Style "A"	...	2	1 3-16	5⅞	3	30	12	60	2.50	3.10
Imperial, Style "B"	...	2	1 3-16	6½	3	30	12	60	3.50	3.10
Jandus Electric Co., No. 8	52	1⅞	1¼	6⅛	3	30	12	60	2.50	3.10
Jandus Electric Co., No. 10	53	2⅞	1¼	6⅛	3	30	12	60	2.50	3.10
Jandus Electric Co., No. 11	65	3¼	0	7 9-16	3	40	..	..	3.30	3.90
Jandus Electric Co., No. 12	98	2⅞	0	6	..	..	12	60	3.30	3.90
Jandus Electric Co., No. 13	...	3¼	0	8⅛	3	40	..	..	3.30	3.90
Jandus Electric Co., No. 15	100	3⅝	0	7¼	3	40	..	..	3.30	3.90
Manhattan, No. 8	52	1⅞	1¼	6⅛	3	30	12	60	2.50	3.10
Manhattan, No. 9	56	1 13-16	1 13-32	5¾	3	30	12	60	2.50	3.10
Manhattan, No. 11	58	1 13-16	1 13-32	6⅜	3	30	12	60	2.50	3.10
Manhattan, No. 12	59	2⅝	0	7½	3	40	..	..	3.30	3.90
Manhattan, No. 12 (New Type)	104	2 11-16	0	7½	3	40	..	..	3.30	3.90
Manhattan, No. 13	61	2⅝	1 3-16	6½	3	30	12	60	2.50	3.10
Manhattan, No. 15	...	2⅝	1 3-16	6½	3	30	12	60	2.50	3.10
C. J. Toerring Co., No. 1	77	2⅝	0	6¾	3	30	12	60	3.30	3.90
C. J. Toerring Co., No. 2	125	2⅝	0	8	3	40	..	..	3.30	3.90
C. J. Toerring Co., No. 3	78	3¼	0	8⅛	3	40	..	..	4.00	4.60
C. J. Toerring Co., No. 4	120	3¼	0	8½	3	40	..	..	4.00	4.60
Toerring Mogul	...	7¾	0	10	3	30	..	..	8.00	9.00
Western Electric Co	51	1⅞	1 3-16	5⅛	3	30	12	60	2.50	3.10
Western Electric Co., Style "H"	...	1⅞	1 3-16	6⅛	3	30	12	60	2.50	3.10
Western Electric Co., Style "L"	50	3¾	0	7⅞	3	50	..	..	3.30	3.90
Western Electric Co., Style "P"	117	3¾	0	7¾	3	50	..	..	4.00	4.60
Western Electric Co., Style "Q"	118	3¾	0	8¾	3	50	..	..	4.00	4.60
Western Electric Co., Style "R"	127	3¾	0	8⅛	3	50	..	..	4.00	4.60

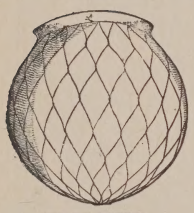
ARC GLOBE AND CLUSTER NETS.

No. 12553.

ARC GLOBE NETS.

FOR INNER GLOBES.

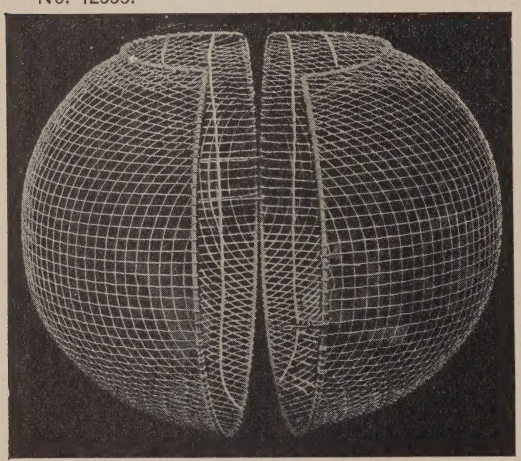
Code Word.	List No.		List Price, Per Dozen.
Zabupav	12553	Coarse, 28 wire	$2.50
Zabupaw	12554	Fine, 35 wire	3.75



No. 12555.

FOR OUTER GLOBES.

Zabupax	12555	12-inch, coarse, 24 wire	4.00
Zabupay	12556	12-inch, fine, 35 wire	8.00
Zabupaz	12557	14-inch, coarse, 24 wire	5.00
Zabupe	12558	14-inch, fine, 35 wire	10.00



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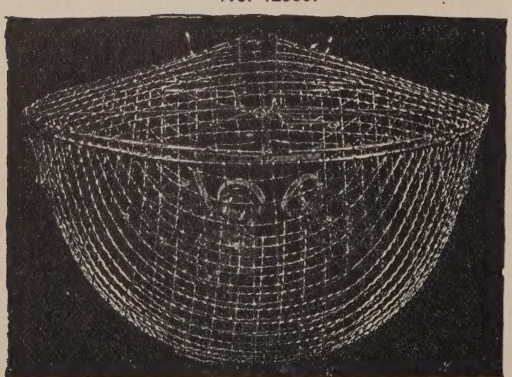


No. 12563.

ARC GLOBE GUARDS.

STEEL WIRE CLOTH.

STEEL SPRING CUSHIONS.

Zabupeb	12559	12-inch, coarse mesh	30.00
Zabupec	12560	12-inch, fine mesh	36.00
Zabuped	12561	14-inch, coarse mesh	36.00
Zabupef	12562	14-inch, fine mesh	42.00

CLUSTER GUARDS.

Zabupeg	12563	12 inch diameter	14.00
Zabupeh	12564	14 inch diameter	16.00
Zabupek	12565	16 inch diameter	18.00
Zabupel	12566	18 inch diameter	20.00
Zabupem	12567	20 inch diameter	22.00

Mention whether for ceiling or shades.

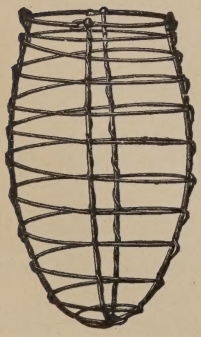
Double list price when both top and bottom sections are wanted.

WIRE LAMP GUARDS.

No. 8904.

"NEVER BREAK" LAMP GUARDS.

Code Word.	List No.	Mfr. No.		List Price per Doz.
Zadexug	8904	11	For 16 C. P. Lamps	$2.00
Zadexuh	8905	12	For 32 C. P. Lamps	2.50
Zadexuk	8906	30	Chip for 16 C. P. Lamps	3.50
Zadexul	8907	32	Chip for 32 C. P. Lamps	4.50



No. 8908.

NO. 3 WIRE GUARD.

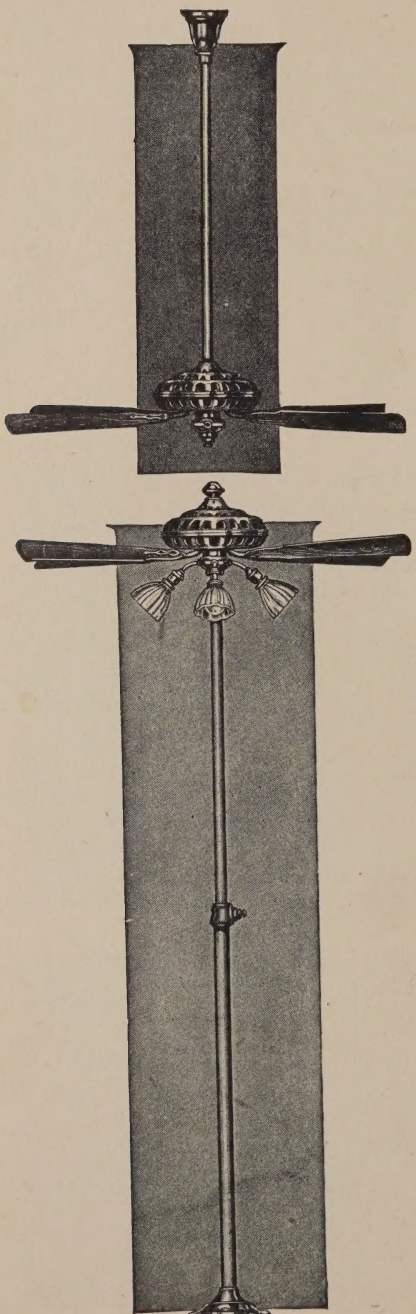
Zadexum	8908	For 3¼-inch Holder	2.00

LAMP COLORING.

PINK. RED, RUBY, BLUE, YELLOW, PURPLE, GREEN, FROSTING, VIOLET, ORANGE, AMBER.

			Each.
Zadexun	8909	4-oz. bottles	1.00
Zadexup	8910	8-ob. bottles	2.00
Zadexur	8911	12-oz. bottles	2.80
Zadexus	8912	1-pint bottles	3.00
Zadexut	8913	1-quart bottles	6.00
Zadexuv	8914	½-gallon bottles	12.00

G. E. ALTERNATING CURRENT, CEILING AND COLUMN FAN MOTORS.



CEILING FAN.

Plain Type.

Speed Regulator—Three-point regulating coil and switch.
Speeds—Two running speeds: 225 and 170 R. P. M.
Voltages—100-110, 112-120, and 220.
Cycles—60.
Finish—Black Japan and Oxidized Copper.
Blades—Four wooden, highly finished interchangeable blades, 52-inch sweep.
Frame—Ventilated.
Bearings—Self-aligning and self-oiling.
Weight—62 pounds complete.
Special Motors—Motors for 40, 50 or 60 cycles, and special voltages made to order.
Note—Prices on Plain Type Ceiling Motor (black Japan and oxidized copper) cover motor complete, with ceiling canopy and hanger, but without hanger rod.

COLUMN FAN.

Plain Type.

Speed Regulator—Three-point regulating coil and switch.
Speeds, two—Running speeds: 225 and 170 R. P. M.
Voltages—100-110, 112-120, and 220.
Cycles—60.
Finish—Black Japan and oxidized copper.
Blades—Four wooden, highly finished, interchangeable blades, 52-inch sweep.
Frame—Ventilated.
Height—7½ feet to bottom of blades.
Bearings—Self-aligning and self-oiling.
Weight—100 pounds, complete.
Special Motors—Motors for 40, 50 or 60 cycles, and special voltages made to order.

CEILING FANS.

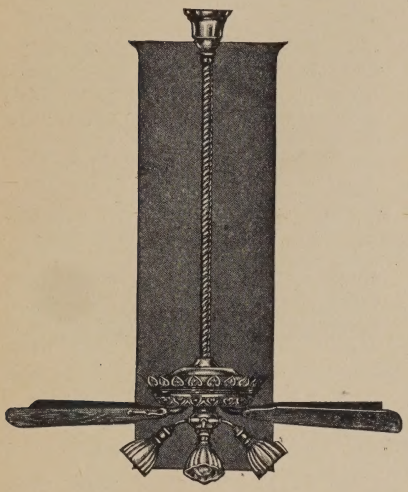
Code Word.	List No.	Cycles.	Voltage.	List Price, Each.
Zacutus	6430	60	100-110	$60.00
Zacucon	6321	60	112-120	60.00
Zacucop	6322	60	220	62.00

COLUMN FANS.

Zacutut	6431	60	100-110	80.00
Zacucor	6323	60	112-120	80.00
Zacucos	6324	60	220	82.00

All the motors listed on this page are tapped and wired that electrolier attachments can be applied, but the above specifications and catalogue numbers do not include sockets, shades or any other electrolier fittings. Prices on application.

G. E. ALTERNATING CURRENT, CEILING AND COLUMN FAN MOTORS.



CEILING FAN.

Ornamental.

Speed Regulator—Four-point regulating coil and switch.
Speeds—Three running speeds: 225, 200 and 170 R. P. M.
Voltages—100-110, 112-120, and 220.
Cycles—60.
Finish—Streaked Oxidized Copper.
Blades—Four wooden, highly finished interchangeable blades, 52-inch sweep.
Frame—Ventilated.
Length—54 inches over all.
Bearings—Self-aligning and self-oiling.
Weight—62 pounds, complete.
Special Motors—Motors for 40, 50 or 60 cycles, and special voltages made to order.

COLUMN FAN.

Ornamental.

Speed Regulator—Four-point regulating coil and switch.
Speeds—Three running speeds: 225, 200 and 170 R. P. M.
Voltages—100-110, 112-120, and 220.
Cycles—60.
Finish—Streaked Oxidized Copper.
Blades—Four wooden, highly finished, interchangeable blades, 52-inch sweep.
Frame—Ventilated.
Height—7½ feet to bottom of blades.
Bearings—Self-aligning and self-oiling.
Weight—100 pounds, complete.
Special Motors—Motors for 40, 50 or 60 cycles, and special voltages made to order.

CEILING FANS.

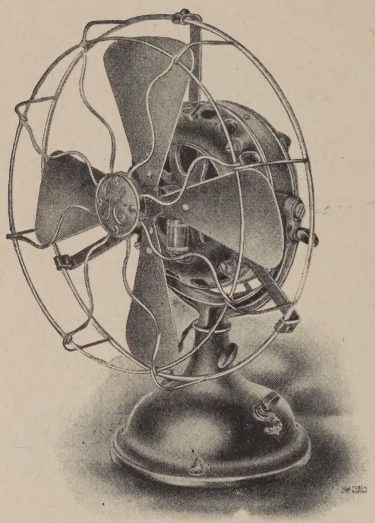
Code Word.	List No.	Cycles.	Voltage.	List Price, Each.
Zacutup	**6425**	60	100-110	**$66.00**
Zacucot	**6369**	60	112-120	**66.00**
Zacucov	**6370**	60	220	**68.00**

COLUMN FANS.

Zacutur	**6426**	60	100-110	**86.00**
Zacucow	**6371**	60	112-120	**86.00**
Zacucox	**6372**	60	220	**88.00**

All the motors listed on this page are tapped and wired that electrolier attachments can be applied, but the above specifications and catalogue numbers do not include sockets, shades, or any other electrolier fittings. Prices on application.

G. E. FAN MOTORS.



Twelve-Inch Swivel and Trunnion Frame. Alternating Current. Desk Fan Motor.

For Alternating Current.

12-INCH SWIVEL AND TRUNNION FRAME DESK AND BRACKET FANS.

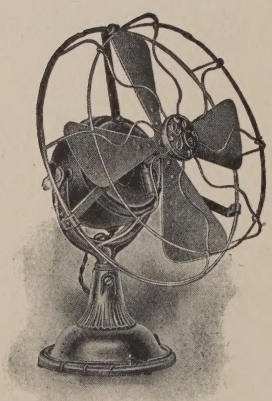
Code Word.	List No.	Cycles.	Volts.	List Price, Each. Desk.	Bracket.
Zabahil	47458	60	100-115	$29.00	$29.00
Zabahim	47459	60	190-220	31.00	31.00
Zabahin	47460	125-140	100-115	29.00	29.00
Zabahip	47461	125-140	190-220	31.00	31.00

16-INCH SWIVEL AND TRUNNION FRAME DESK AND BRACKET FANS.

Zabahir	47462	60	100-115	36.00	36.00
Zabahis	47463	60	190-220	38.00	38.00
Zabahit	47464	125-140	100-115	36.00	36.00
Zabahiv	47465	125-140	190-220	38.00	38.00

12-INCH SWIVEL AND TRUNNION FRAME DESK AND BRACKET FANS.

Zabahiz	47468	25	110	33.00	33.00
Zabaho	47469	40	110	33.00	33.00



Twelve-Inch Swivel and Trunnion Frame. Direct Current. Fan Motor.

For Direct Current.

12-INCH SWIVEL AND TRUNNION DESK AND BRACKET FANS.

			Desk.	Bracket.
Zabahof	47472	115	24.00	24.00
Zabahog	47473	230	26.00	26.00

16-INCH SWIVEL AND TRUNNION DESK AND BRACKET FANS.

Zabahoh	47474	115	32.50	32.50
Zabahok	47475	230	34.50	34.50

CEILING FANS.

DIRECT CURRENT. THREE SPEED.

Zabahol	47476	4-blade	115	46.00
Zabahom	47477	4-blade	230	49.00

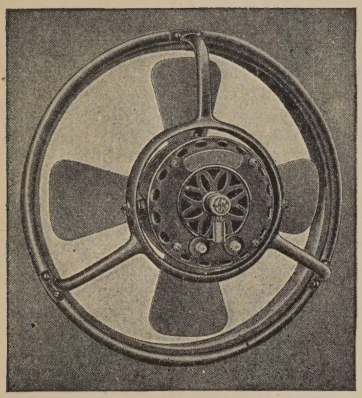
DIRECT CURRENT. ONE SPEED.

Zabahon	47478	115	33.00
Zabahop	47479	230	36.00

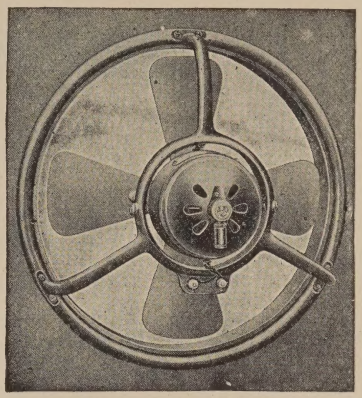
Special Catalogues and Bulletins on Fan Motors mailed upon request.

G. E. VENTILATING OUTFITS.

VENTILATING FAN MOTORS.



Sixteen-Inch Alternating Current Exhaust Fan.



Sixteen-Inch Direct Current Exhaust Fan.

ALTERNATING CURRENT OUTFITS.
INDUCTION AND COMMUTATOR TYPES.

Code Word.	List No.	Mfr. No.	Diam. Fan. Inches.	Cycles.	Volts.
Zababev	46997	35307	12	25	110
Zababew	46998	35308	12	40	110
Zababex	46999	34025	12	60	100-115
Zababez	47000	34026	12	60	190-220
Zababi	47001	34027	12	125-140	100-115
Zababib	47002	34028	12	125-140	190-220
Zababid	47003	34029	16	60	100-115
Zababif	47004	34030	16	60	190-220
Zababig	47005	34031	16	125-140	100-115
Zababih	47006	34032	16	125-140	190-220

SPEED CONTROLLERS FOR ALTERNATING CURRENT MOTORS.

Zababik	47007	35309	12	25	110
Zababil	47008	35310	12	40	110
Zababim	47009	28604	12	60	100-115
Zababin	47010	26376	12	60	190-220
Zababip	47011	28606	12	125-140	100-115
Zababir	47012	28607	12	125-140	190-220
Zababis	47013	28608	16	60	100-115
Zababit	47014	26381	16	60	190-220
Zababiv	47015	28610	16	125-140	100-115
Zababiw	47016	28611	16	125-140	190-220

DIRECT CURRENT OUTFITS.

		Mfr. No.	Diam. Fan. Inches.	Volts.
Zababix	47017	34009	12	115
Zababiz	47018	34010	12	230
Zababo	47019	34011	16	115
Zababob	47020	34012	16	230

SPEED CONTROLLERS FOR DIRECT CURRENT MOTORS.

Zababod	47021	34034	12	115
Zababof	47022	34035	12	230
Zababog	47023	34036	16	115
Zababoh	47024	34037	16	230

PRICES QUOTED ON APPLICATION.

LINE MATERIAL.

CROSS ARMS.

No. 46054.

Standard 3¼ Inches by 4¼ Inches.

Bored for 1½-inch pins, one ⅝-inch center bolts and two ⅜-inch brace bolts. Long leaf southern yellow pine. Painted two coats red.

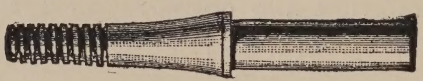
Code Word.	List No.	Length.	Pins.	List Price, per 100.
Zumat	46053	3 feet	2	$24.00
Zumav	46054	4 feet	4	32.00
Zumaw	46055	5 feet	4	40.00
Zumax	46056	6 feet	6	48.00
Zumaz	46057	8 feet	8	64.00
Zume	46058	10 feet	10	80.00

These cross arms can be furnished unpainted for 1¼-inch pins.

WOOD PINS.

In Crates of 500.

LOCUST.



No. 46075.

Zumew	46073	1¼x8 inches	28.00
Zumex	46074	1¼x9 inches	31.00
Zumez	46075	1½x9 inches	34.00

OAK.

Zumid	46078	1¼x8 inches	16.00
Zumif	46079	1¼x9 inches	18.00
Zumig	46080	1½x9 inches	18.00

CORNER PINS.

Zumim	46084	Oak, 1½ inch	60.00
Zumin	46085	Locust	65.00

DUPLEX PINS.

Zumip	46086	Oak, 1¼ inch	30.00
Zumir	46087	Locust, 1½ inch	40.00

WOOD BRACKETS.

In Crates of 500.

No. 46088.

Zumis	46088	12 inch, oak	32.00
Zumit	46089	10 inch, oak	24.00
Zumiv	46090	No. 2 W. U	40.00

CROSS ARM BRACES.

Code Word.	List No.		List Price per 100. Plain.	Galvanized
Zabadot	47212	20 x 1 x 3-16	$6.50	$9.00
Zabadov	47213	22 x 1 x 3-16	7.10	10.00
Zabadow	47214	24 x 1 x 3-16	7.80	11.00
Zabadox	47215	20 x 1 7-32 x 7-32	8.00	10.50
Zabadoz	47216	22 x 1 7-32 x 7-32	8.60	11.50
Zabadu	47217	24 x 1 7-32 x 7-32	10.70	14.00
Zabadub	47218	26 x 1 7-32 x 7-32	11.60	15.00
Zabadud	47219	28 x 1 7-32 x 7-32	12.50	16.00
Zabaduf	47220	30 x 1 7-32 x 7-32	13.50	17.00
Zabadug	47221	32 x 1 7-32 x 7-32	14.50	18.30
Zabaduh	47222	20 x 1¼ x ¼	9.00	13.20
Zabaduk	47223	22 x 1¼ x ¼	9.70	14.00
Zabadul	47224	24 x 1¼ x ¼	10.40	15.00
Zabadum	47225	26 x 1¼ x ¼	11.10	16.00
Zabadun	47226	28 x 1¼ x ¼	11.70	17.10
Zabadup	47227	30 x 1¼ x ¼	12.40	18.20
Zabadur	47228	32 x 1¼ x ¼	13.00	19.10

Orders should specify whether plain or galvanized braces are desired, otherwise plain will be supplied.

POLE STEPS.

			List Price per 1000 Plain.	Galvanized.
Zabadus	47229	½ x 9	$41.00	$55.00
Zabadut	47230	9-16 x 9	54.00	72.00
Zabaduv	47231	9-16 x 10¼	60.00	81.00
Zabaduw	47232	⅝ x 8	58.00	77.00
Zabadux	47233	⅝ x 9	64.00	85.00
Zabaduz	47234	⅝ x 10	70.00	92.00

Orders should specify whether plain or galvanized pole steps are desired, otherwise plain will be supplied.

CARRIAGE BOLTS.

LIST PRICE PER 100. PLAIN.

Diameter	1½	1¾	2	2¼	2½	2¾	3	3¼	3	3½	4	4¼
3-16 & ¼	$1.00	$1.04	$1.08	$1.12	$1.16	$1.20	$1.24	$1.28	$1.32	$1.36	$1.40	$1.44
5-16	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.55	1.60	1.65	1.70	1.75
⅜	1.60	1.68	1.76	1.84	1.92	2.00	2.08	2.16	2.24	2.32	2.40	2.48
7-16	2.20	2.29	2.38	2.47	2.56	2.65	2.74	2.83	2.92	3.01	3.10	3.19
½	3.00	3.00	3.00	3.00	3.00	3.11	3.22	3.33	3.44	3.55	3.66	3.77
9-16 & ⅝	5.20	5.20	5.20	5.20	5.20	5.37	5.54	5.71	5.88	6.05	6.22	6.39
¾	7.20	7.20	7.20	7.20	7.20	7.43	7.66	7.89	8.12	8.35	8.58	8.81

Diameter	4½	4¾	5	5½	6	6½	7	7½	8	8½	9	9½
3-16 & ¼	$1.48	1.52	1.56	1.64	1.72	1.80	1.88	1.96	2.04	2.12	2.20	2.28
5-16	1.80	1.85	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80
⅜	2.56	2.64	2.72	2.88	3.04	3.20	3.36	3.52	3.68	3.84	4.00	4.16
7-16	3.28	3.37	3.48	3.64	3.82	4.00	4.18	4.36	4.54	4.72	4.90	5.08
½	3.88	3.99	4.10	4.32	4.54	4.76	4.98	5.20	5.42	5.64	5.86	6.08
9-16 & ⅝	6.56	6.73	6.90	7.24	7.58	7.92	8.26	8.60	8.94	9.28	9.62	9.96
¾	9.04	9.27	9.50	9.96	10.42	10.88	11.34	11.80	12.26	12.72	13.18	13.64

Diameter	10	11	12	13	14	15	16	17	18	19	20	
3-16 & ¼	2.36	2.52	2.68	2.84	3.00	3.16	3.32	3.48	3.64	3.80	3.96	...
5-16	2.90	3.10	3.30	3.50	3.70	3.90	4.10	4.30	4.50	4.70	4.90	...
⅜	4.32	4.64	4.96	5.28	5.60	5.92	6.24	6.56	6.88	7.20	7.52	...
7-16	5.26	5.62	5.98	6.34	6.70	7.06	7.42	7.78	8.14	8.50	8.86	...
½	6.30	6.74	7.18	7.62	8.06	8.50	8.94	9.38	9.82	10.26	10.70	...
9-16 & ⅝	10.30	10.98	11.66	12.34	13.02	13.70	14.38	15.06	15.74	16.42	17.10	...
¾	14.10	15.02	15.94	16.86	17.78	18.70	19.62	20.54	21.46	22.38	23.30	...

MACHINE BOLTS.

Price per 100, Plain, Not Galvanized.

With Square Heads and Square Nuts, Finished Points.

Diameter.	Length. ¾-1½	2	2½	3	3½	4	4½	5	5½
1/4	$1.70	$1.78	$1.86	$1.94	$2.02	$2.10	$2.18	$2.26	$2.34
5/16	2.00	2.12	2.24	2.36	2.48	2.60	2.72	2.84	2.96
3/8	2.40	2.56	2.72	2.88	3.04	3.20	3.36	3.52	3.68
7/16	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40
1/2	3.60	3.86	4.12	4.38	4.64	4.90	5.16	5.42	5.68
9/16 and 5/8	5.20	5.58	5.96	6.34	6.72	7.10	7.48	7.86	8.24
3/4	7.20	7.70	8.20	8.70	9.20	9.70	10.20	10.70	11.20
7/8	10.50	11.20	11.90	12.60	13.30	14.00	14.70	15.40	16.10
1	15.10	16.00	16.90	17.80	18.70	19.60	20.50	21.40	22.30
1 1/4	30.00	31.50	33.00	34.50	36.00	37.50	39.00	40.50	42.00

Diameter.	6	6½	7	7½	8	9	10	11	12
1/4	$2.42	$2.50	$2.58	$2.66	$2.74	$2.90	$3.06	$3.22	$3.38
5/16	3.08	3.20	3.32	3.44	3.56	3.80	4.04	4.28	4.52
3/8	3.84	4.00	4.16	4.32	4.48	4.80	5.12	5.44	5.76
7/16	4.60	4.80	5.00	5.20	5.40	5.80	6.20	6.60	7.00
1/2	5.94	6.20	6.46	6.72	6.98	7.50	8.02	8.54	9.06
9/16 and 5/8	8.62	9.00	9.38	9.76	10.14	10.90	11.66	12.42	13.18
3/4	11.70	12.20	12.70	13.20	13.70	14.70	15.70	16.70	17.70
7/8	16.80	17.50	18.20	18.90	19.60	21.00	22.40	23.80	25.20
1	23.20	24.10	25.00	25.90	26.80	28.60	30.40	32.20	34.00
1 1/4	43.50	45.00	46.50	48.00	49.50	52.50	55.50	58.50	61.50

	13	14	15	16	17	18	19	20	22	24	26	30
1/4	$3.54	$3.70	$3.86	$4.02	$4.18	$4.34	$4.50	$4.66				
5/16	4.76	5.00	5.24	5.48	5.72	5.96	6.20	6.44				
3/8	6.08	6.40	6.72	7.04	7.36	7.68	8.00	8.32				
7/16	7.40	7.80	8.20	8.60	9.00	9.40	9.80	10.00				
1/2	9.58	10.10	10.62	11.14	11.66	12.18	12.70	13.22				
9/16 and 5/8	13.94	14.70	15.46	16.22	16.98	17.74	18.50	19.26				
3/4	18.70	19.70	20.70	21.70	22.70	23.70	24.70	25.70	27.70	29.70	31.70	35.70
7/8	26.60	28.00	29.40	30.80	32.20	33.60	35.00	36.40	39.20	42.00	44.80	50.40
1	35.80	37.60	39.40	41.20	43.00	44.80	46.60	48.40	52.00	55.60	59.20	66.40
1 1/4	64.50	67.50	70.50	73.50	76.50	79.50	82.50	85.50	91.50	97.50	103.50	115.80

WASHERS.

All sizes at market prices.

LAG SCREWS.

Price per 100, Plain, Not Galvanized.

Diameter.	Length. 1½	2	2½	3	3½	4	4½	5	5½
5/16	$2.25	$2.45	$2.65	$2.85	$3.05	$3.25	$3.45	$3.65	$3.85
3/8	2.70	2.96	3.22	3.48	3.74	4.00	4.26	4.52	4.78
7/16	3.15	3.47	3.79	4.11	4.43	4.75	5.07	5.39	5.71
1/2	3.75	4.11	4.47	4.83	5.19	5.55	5.91	6.27	6.63
9/16 and 5/8		5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50
3/4			7.90	8.60	9.30	10.00	10.70	11.40	12.10
7/8				12.50	13.50	14.50	15.50	16.50	17.50
1					18.20	19.50	20.80	22.10	23.40

Diameter.	6	6½	7	7½	8	9	10	11	12
5/16	$4.05	$4.25	$4.45	$4.65	$4.85	$5.25	$5.65	$6.05	$6.45
3/8	5.04	5.30	5.56	5.82	6.08	6.60	7.12	7.64	8.16
7/16	6.03	6.35	6.67	6.99	7.31	7.95	8.59	9.23	9.87
1/2	6.99	7.35	7.71	8.07	8.43	9.15	9.87	10.59	11.31
9/16 and 5/8	9.00	9.50	10.00	10.50	11.00	12.00	13.00	14.00	15.00
3/4	12.80	13.50	14.20	14.90	15.60	17.00	18.40	19.80	21.20
7/8	18.50	19.50	20.50	21.50	22.50	24.50	26.50	28.50	30.50
1	24.70	26.00	27.30	28.60	29.90	32.50	35.10	37.70	40.30

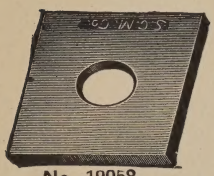
LINE EQUIPMENT.

ROUND WROUGHT WASHERS.

No. 19054.

Code Word.	List No.	Size.	List Price, per 100 Lbs.	Weight, per 100.
Zacetoc	19053	1/2 inch hole for 3/8 inch Carriage Bolt	$9.70	2.32
Zacetod	19054	9/16 inch hole for 1/2 inch Bolt, or Lag.....	9.20	3.85
Zacetof	19055	11/16 inch hole for 5/8 inch Bolt, or Lag.....	9.00	7.69
Zacetog	19056	13/16 inch hole for 3/4 inch Bolt, or Lag.....	8.80	9.90

SQUARE WASHERS.

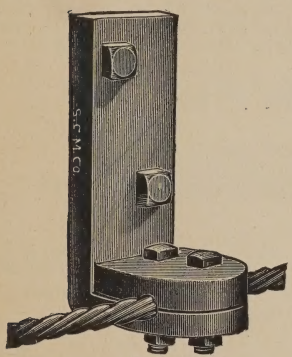


No. 19058.

		Size.	Weight, per 100.
Zacetoh	19057	2 x2 x 1/8 inch.....	14
Zacetok	19058	2 x2 x3/16 inch.....	20
Zacetol	19059	2 1/4x2 1/4x3/16 inch.....	25
Zacetom	19060	3 x3 x3/16 inch.....	45
Zaceton	19061	4 x4 x3/16 inch.....	80
Zacetop	19062	5 x5 x3/16 inch.....	125

Prices on application.

MESSENGER CLAMPS.



No. 19063.

		No.		Weight, per 100.
Zacetor	19063	1	Dimensions, 1/2 inch x 2 inch x 6 inch; size strand, 1/2 inch.....	269
Zacetos	19064	2	Dimensions, 3/8 inch x 2 inch x 6 inch; size strand, 3/8 inch.....	197
Zacetot	19065	3	Dimensions, 5/16 inch x 2 inch x 6 inch; size strand, 1/4 inch.....	176

Complete with machine bolts, but no lags.

Prices on application.

THIMBLES.

FOR GUY RODS.

These are shipped with ends left open as shown to admit guy rods. Ends can be furnished closed if desired.

No. 19067.

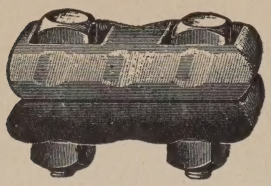
GALVANIZED.

		Size in Inches.	List Price, per Doz.
Zacetov	19066	3/16	$0.84
Zacetow	19067	1/4	.84
Zacetox	19068	5/16	.96
Zacetoy	19069	3/8	1.08
Zacetoz	19070	7/16	1.20
Zacetu	19071	1/2	1.32
Zacetub	19072	9/16	1.44
Zacetuc	19073	5/8	1.56
Zacetud	19074	3/4	1.80
Zacetuf	19075	7/8	1.92
Zacetug	19076	1	2.40

POLE SHIMS.

These can be made in any size desired.

Prices on application.



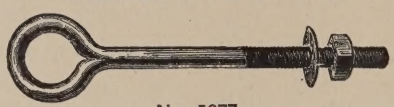
No. 5876.

GALVANIZED GUY CLAMPS.

Rolled Steel with High Carbon Steel Bolts.

Code Word.	List No.		List Price Each
Illiberal	5875	Large size, 3 bolts	$ .40
Illicit	5876	Small size, 2 bolts	.20

WELDED EYE BOLTS.



No. 5877.

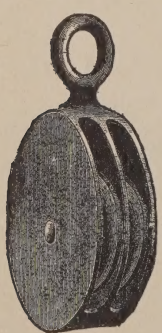
			Approximate Weight per 100.	List Price, Plain.
Illude	5877	Welded Eye Bolts ½ in.x12 in.	91 lbs. per 100	$9.50
Illume	5878	Welded Eye Bolts ½ in.x14 in	102 lbs. per 100	10.20
Image	5879	Welded Eye Bolts ½ in.x16 in.	113 lbs. per 100	11.40
Imbalm	5880	Welded Eye Bolts ⅝ in.x12 in.	150 lbs. per 100	12.20
Imbank	5881	Welded Eye Bolts ⅝ in.x14 in.	167 lbs. per 100	13.20
Imbark	5882	Welded Eye Bolts ⅝ in.x16 in.	184 lbs. per 100	14.40

Add 4c. per pound for Galvanizing.

ELECTRIC LIGHT BLOCKS WITH EYES.

Galvanized Iron.

			For ½ inch rope.	List Price Per Doz.
Illnatured	5883	3270	3 inch shell, single, one eye	7.00
Illogical	5884	3270A	3 inch shell, single, two eyes	7.00
Illtempered	5885	3271	3 inch shell, double, one eye	10.00
Illuminate	5886	3271A	3 inch shell, double, two eyes	10.00
			For 9-16 inch rope.	
Illumine	5887	3272	3½ inch shell, single, one eye	9.00
Illusory	5888	3272A	3½ inch shell, single, two eyes	9.00
Illusion	5889	3273	3½ inch shell, double, one eye	12.00
Illusive	5890	3273A	3½ inch shell, double, two eyes	12.00

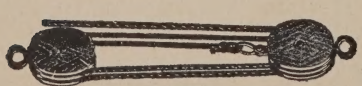


No. 5891.

MALLEABLE IRON PULLEY BLOCKS.

Galvanized.

				For ⅜ inch rope.	
Illustrate	5891	331	2¼	inch shell, single, one eye	2.00
Imaginal	5892	331A	2¼	inch shell, single, two eyes	2.00
Imaginary	5893	331B	2¼	inch shell, double, one eye	2.80
Imagine	5894	331C	2¼	inch shell, double, two eyes	2.80
				For ½ inch rope.	
Imbargo	5895	332	3	inch shell, single, one eye	3.00
Imbed	5896	332A	3	inch shell, single, two eyes	3.00
Imbibe	5897	332B	3	inch shell, double, one eye	4.00
Imbody	5898	332C	3	inch shell, double, two eyes	4.00



No. 5899.

WOOD PULLEY BLOCKS WITH EYE.

For Attaching Separate Clamp.

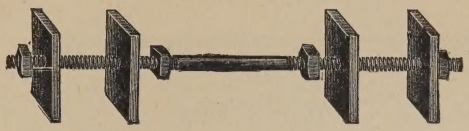
Imbecile	5899	4 inch, for ½ inch rope, per pair	2.60
Imbitter	5900	5 inch, for ¾ inch rope, per pair	4.50

WOOD PULLEY BLOCKS.

With Eccentric Attached.

Imblazon	5901	4 inch, for ½ inch rope	5.20
Imborder	5902	5 inch, extra heavy, for ¾ inch rope	7.50

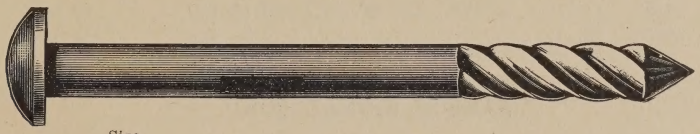
DOUBLE ARMING BOLTS.



These Bolts are furnished complete with four nuts, but no washers. We quote separate prices on washers.

Code Word.	List No.		Weight per 100. ½	⅝	¾	List Price, per 100. ½	9/16 & ⅝	¾
Zabutik	13093	8.....	56.0	90.0	136.6	$6.98	$10.14	$13.70
Zabutil	13094	9.....	61.5	98.0	148.8	7.50	10.90	14.70
Zabutim	13095	10.....	67.0	106.3	161.0	8.02	11.66	15.70
Zabutin	13096	11.....	72.5	114.6	173.2	8.54	12.42	16.70
Zabutip	13097	12.....	78.0	122.9	184.4	9.06	13.18	17.70
Zabutir	13098	13.....	83.5	131.2	196.6	9.58	13.94	18.70
Zabutis	13099	14.....	89.0	139.5	208.8	10.10	14.70	19.70
Zabutit	13100	15.....	94.5	148.0	221.0	10.62	15.46	20.70
Zabutiv	13101	16.....	100.0	156.5	233.2	11.14	16.22	21.70
Zabutiw	13102	17.....	105.5	165.0	245.4	11.66	16.98	22.70
Zabutix	13103	18.....	111.0	173.5	257.6	12.18	17.74	23.70
Zabutiy	13104	19.....	116.5	182.0	269.8	12.70	18.50	24.70
Zabutiz	13105	20.....	122.0	190.5	282.0	13.22	19.26	25.70
Zabuto	13106	21.....	127.5	198.0	294.0	13.74	20.02	26.70
Zabutob	13107	22.....	133.0	206.0	306.0	14.26	20.78	27.70

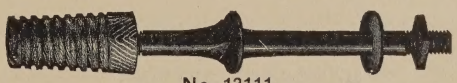
BUTTON HEAD, SPIRAL THREAD, POLE STEP.



		Size.	Wt. per 100.
Zabutoc	13108	⅝x 8½	100
Zabutod	13109	⅝x 9	105
Zabutof	13110	⅝x10	115

List prices on application.

W. U. STEEL PIN.

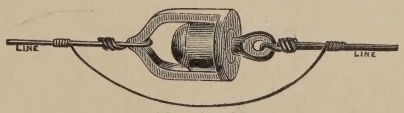


No. 13111.

			Price, Per 100.
Zabutog	13111	½ inch	8.00
Zabutoh	13112	⅝ inch	9.00

ANTI-HUMS.

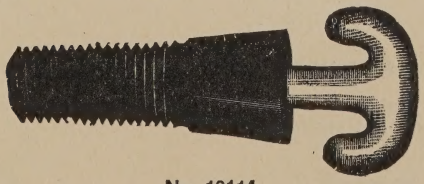
Humming of Telegraph Wires easily and cheaply remedied.



No. 13113.

			Each.
Zabutok	13113		.25

RUBBER HOOK INSULATOR.



No. 13114.

Zabutol	13114		.18

SAMSON CORDS.

SAMSON SPOT TROLLEY AND ARC LAMP CORD.

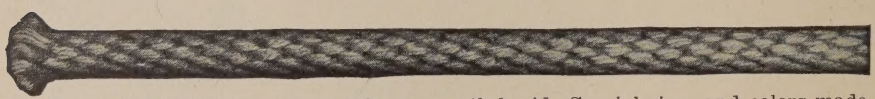
Water Proofed.

This is an extra quality cord, the colored spot being the trade mark used only in this quality. It is braided hard, smoothly finished, carefully inspected and thoroughly water proofed, making it the most durable and economical cord for these purposes.

Put up in rolls of about 1200 feet each.

Code Word.	List No.	Size No.	Diameter.	Approximate Weight per Coil.	List Price per Pound.
Zadixar	30023	8	1-4 in.	30 lbs.	$0.50
Zadixas	30024	9	9-32 in.	38 lbs.	.50
Zadixat	30025	10	5-16 in.	48 lbs.	.50
Zadixav	30026	12	3-8 in.	66 lbs.	.50
Zadixaw	30027	14	7-16 in.	90 lbs.	.50
Zadixax	30028	16	1-2 in.	115 lbs.	.50

SAMSON SIGNAL CORD.



Made of extra quality stock, with hard smooth braid. Special sizes and colors made to order.

MAHOGANY COTTON.

Zadixay	30029	6	.61½
Zadixaz	30030	7	.60½
Zadixe	30031	8	.60

DRAB COTTON.

Zadixeb	30032	6	.56½
Zadixec	30033	7	.55½
Zadixed	30034	8	.55
Zadixef	30035	9	.55
Zadixeg	30036	10	.55
Zadixeh	30037	11	.55
Zadixek	30038	12	.55

SAMSON WIRE CENTRE SIGNAL CORD.

This is made of our best Samson stock, with a center of galvanized steel wire cable. It is very durable and does not stretch.

				Per Foot.
Zadixel	30039	6	Mahogany	.02½
Zadixem	30040	8	Mahogany	.03

GALVANIZED WIRES AND STRANDS.

DOUBLE GALVANIZED TELEPHONE AND TELEGRAPH WIRE.

Code Word.	List No.	Diameter in Inches.	E. B. B. Breaking strain in pounds.	B. B.	Steel.	Weight in lbs. per Mile.	Bundles
Zusiw	46370	.225	2190	2409	2701	730	¼ mile.
Zusix	46371	.192	1620	1782	1998	540	⅓ mile
Zusiz	46372	.162	1140	1254	1406	380	½ mile.
Zuso	46373	.148	960	1056	1184	320	½ mile.
Zusob	46374	.135	780	858	962	260	½ mile.
Zusod	46375	.120	642	706	792	214	½ mile.
Zusof	46376	.105	495	545	611	165	½ mile.
Zusog	46377	.080	288	317	355	96	½ mile.

Prices quoted on application.

GALVANIZED MAST ARM ROPE.

		Diameter in in.	Weight per ft.	Breaking strain.	Price per ft.
Zusov	46387	⅜	0.158 lbs.	2300 lbs.	$0.05
Zusow	46388	5/16	0.109 lbs.	1700 lbs.	.03½
Zusox	46389	¼	0.070 lbs.	1100 lbs.	.02¾

GALVANIZED WIRE ROPE.

WITH HEMP CENTER—FIVE STRANDS, 7 WIRES EACH.

		Approx. Diam. Inches.	Circ. in Inches.	Weight per ft. in Pounds.	Approx. Brkg. Strain in Tons of 2000 lbs.	Circ. in in. of New Manila Rope of Equal Strength.	List Price, per ft.
Zusoz	46390	9/32	⅞	0.123	1.1	1¾	.03
Zusu	46391	¼	¾	0.090	0.81	1½	.02½
Zusub	46392	7/32	⅝	0.063	0.56	1¼	.02¼
Zusud	46393	3/16	½	0.040	0.36	1⅛	.02

When made with wire center add 10 per cent to price per foot.

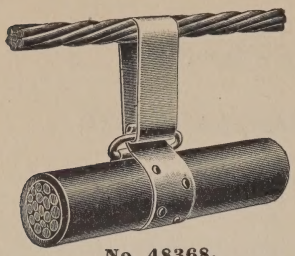
GALVANIZED STEEL WIRE STRAND.

For Guying Poles and for Span Wire in Electric Light and Railway Service.

These strands are composed of seven wires twisted together into a single strand.

		Diameter, Inches.	List Price, per 100 Ft.
Zacunud	3929	1	18.50
Zacunuf	3930	⅞	14.50
Zacunug	3931	¾	10.25
Zacunuh	3932	11/16	8.75
Zacunuk	3933	⅝	7.25
Zacunul	3934	9/16	5.75
Zacunum	3935	½	4.50
Zacunun	3936	15/32	4.50
Zacunup	3937	7/16	3.75
Zacunur	3938	⅜	2.75
Zacunus	3939	5/16	2.25
Zacunut	3940	9/32	2.25
Zacunuv	3941	17/64	2.25
Zacunuw	3942	¼	1.75
Zacunux	3943	7/32	1.50
Zacunuy	3944	3/16	1.25
Zacunuz	3945	5/32	1.15
Zacupa	3946	⅛	1.00
Zacupab	3947	3/32	.80

CABLE HANGERS.

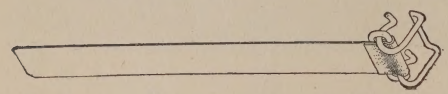


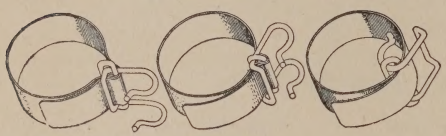
No. 48368.

METROPOLITAN CABLE HANGER.

This style of clip is much more durable than the old time marline and can be installed in much less time.

Code Word.	List No.	List Price Per 1,000
Zabava	48368	$38.00





No. 48369.

THE HARVARD DOUBLE GRIP CABLE HANGER.

Made of galvanized steel wire and a strap of sheet metal.

It is adjustable to any size cable, and positively will not slip.

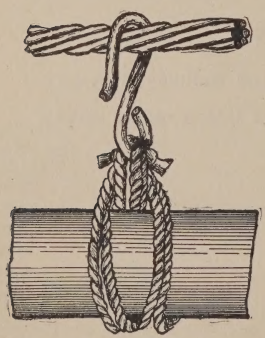
It is fitted in the least possible time, and can be used over and over again. Economical because of its endurance.

Single grip is good, but the double grip of the Harvard is better, gives it a larger range of usefulness. Strap is 6½ inches long.

The Harvard is now the standard cable hanger for many of the large telephone companies all over the United States.

Zabavab	48369	.....	30.00
Zabavad	48370	Tie wire, No. 10, galvanized.....	9.00
Zabavaf	48371	Tie wire, No. 12, galvanized.....	6.00
Zabavag	48372	3 inch pole rings, each.....	.06
Zabavah	48373	4 inch pole rings, each.....	.08
Zabavak	48374	5 inch pole rings, each.....	.10
Zabaval	48375	Pole staples for lightning rods, per lb.....	.15
Zabavam	48376	Ground plates, copper, 15x15 inches, each	1.00
Zabavan	48377	Ground plates, copper, 15x30 inches, each.	2.00
Zabavap	48378	Ground plates, copper, 30x30 inches, each.....	4.00

All ground plates have 6 feet of heavy copper wire attached.



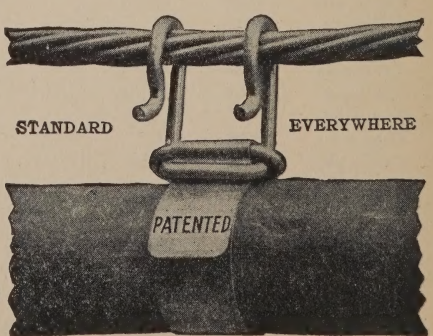
No. 48379.

MARLIN CABLE HANGERS.

Zabavar	48379	No. 1 for 25 pr. cable.....	7.00
Zabavas	48380	No. 2 for 50 and 75 pr. cable.....	13.00
Zabavat	48381	No. 3 for 100 and 150 pr. cable....	14.00

BOSTON CABLE CLIP.

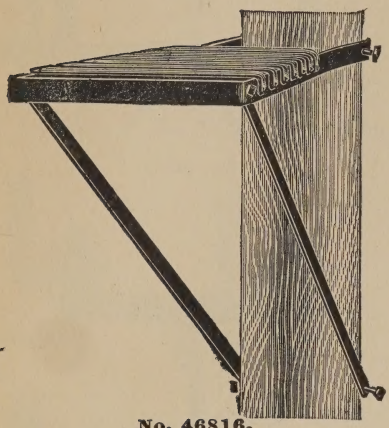
Zabavav	48382	No. 4. Standard clip. Strap 6½ in. long. Takes any cable up to 1⅝ in. diameter. Hook to span ½ in. guy.....	50.00
Zabavaw	48383	No. 5. Same, with hook to span ¼ in. guy.....	50.00



No. 48382.

POLE EQUIPMENT.

POLE SEATS AND BALCONIES.



No. 46816.

Our pole seats and balconies are made of iron, being very strong, easily attached to poles, japanned finish.

POLE SEATS.

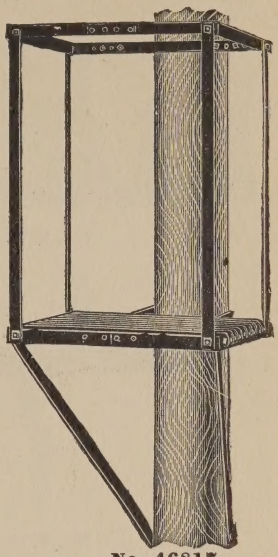
Weight, 40 lbs.

Code Word.	List No.	List Price Each.
Zuyis	46816	$ 8.00

POLE BALCONIES.

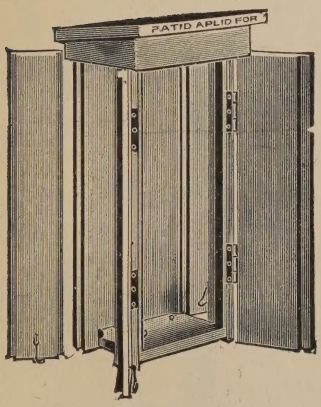
Weight, 84 lbs.

Zuyit	46817	14.00



No. 46817.

POLE HOUSES.

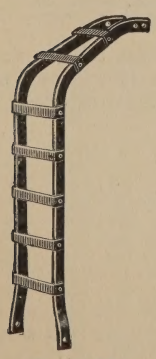


Pole House.

Our pole houses are made with lap joints, making same moisture proof, with sides removable, making fuses accessible from side as well as the front. Fuse strips are arranged so that cable is fanned out midway in front of pole houses and jumper wires from rear corners, the removable sides make this method easy, and all contacts accessible and easy to solder.

Pole house only.

		Size.	
Zuyiv	46818	25 pair	$ 10.00
Zuyiw	46819	50 pair	11.00
Zuyix	46820	75 pair	12.50
Zuyiz	46821	100 pair	14.00
Zuyo	46822	150 pair	16.00
Zuyob	46823	200 pair	18.00
		With tubular fuses.	
Zuyod	46824	25 pair	21.50
Zuyof	46825	50 pair	31.00
Zuyog	46826	75 pair	42.90
Zuyoh	46827	100 pair	54.00
Zuyok	46828	150 pair	76.00
Zuyol	46829	200 pair	98.00
		With tubular fuses and carbon arresters.	
Zuyom	46830	25 pair	27.60
Zuyon	46831	50 pair	43.00
Zuyop	46832	75 pair	60.10
Zuyor	46833	100 pair	76.00
Zuyos	46834	150 pair	108.00
Zuyot	46835	200 pair	140.00



No. 46836.

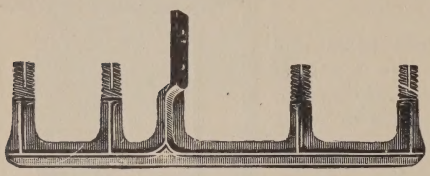
LADDERS.

It is often desirous to have a ladder extending over the pole house from the pole seat. We illustrate ladder designed for this use. It can be readily fastened to pole seat, upper end secured to pole by lags.

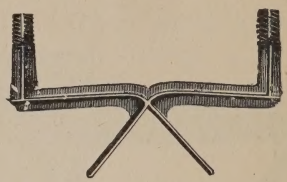
Length, 10 ft.

Zuyov	46836		9.00

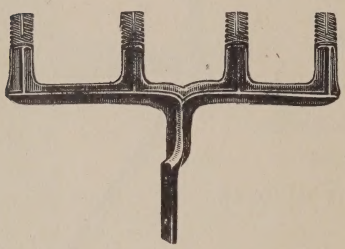
CHUBBUCK MALLEABLE IRON BREAK ARMS, WITH SLOTTED PIN HEADS.



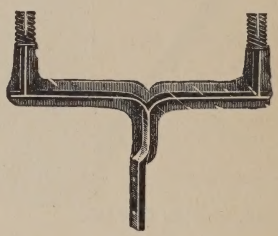
No. 6763.



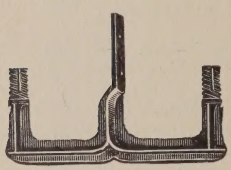
No. 6764.



No. 6770.



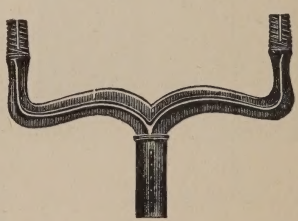
No. 6768.



No. 6769.

No. 6767.

No. 6783.



No. 6784.

Cast iron breaks easily, and will often be broken in shipment and in process of construction. These malleable iron break arms are one-third the weight of cast iron, and will not break under an excessive strain, thereby saving the wire from dropping into the street and grounding.

Code Word.	List No.	Mfr No.		List Price Each.
Leaden	6763	65	Four-point Break Arm	$1.30
Leadership	6764	55	Roof Break Arm	.60
Leak	6767	60	Four-point Break Arm	1.20
Lean	6768	45	Double Break Arm, for Telephones, etc	.70
Leap	6769	50	Double Break Arm, for Telephones, etc	.60
Learn	6770	60	Removable Pin Break Arm, 1¼ inch Thimble, 1¼ inch stem.	.64
Leech	6783	75	Removable Pin Break Arm, 1½ inch Thimble, 1½ inch stem.	.64
Leer	6784	4	Double Break Arm, 1½ inch stem	.60

CHUBBUCK MALLEABLE IRON BRACKETS AND PINS.

No. 6702.

No. 6703.

No. 6704.

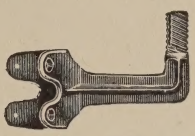
No. 6705.

No. 6706.

No. 6707.

No. 6708.

No. 6709.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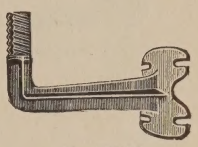

No. 6711.

No. 6785.

No. 6794.

No. 6795.

No. 6798.

POINTS OF SUPERIORITY:

1. A screw end for glass insulator which is adjustable and will not break the insulator by changes of hot and cold weather.

2. That the triangular fastening will adapt itself to a brick wall without drilling holes and can be spiked on, which saves time in putting up wires.

3. That the design is such that gives the greatest amount of strength with the least material.

4. That they are sightly, and looks as if an effort was being made to improve the looks of your work.

5. They are made of **Malleable iron** and will not break, which makes them safe to use.

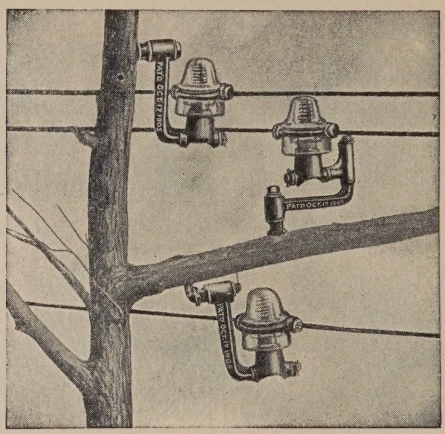
6. The use of these brackets on converter work and cutting in of arc lamps, where wires have to be run on buildings, will increase the insulation of lines over all forms of porcelain or rubber hooks, allowing the use of a regular glass insulator and setting it in the proper position.

7. They are sold at a price at which you can afford to purchase, and a new coat of paint makes them as good as new, and can go in your stock after being in use for years.

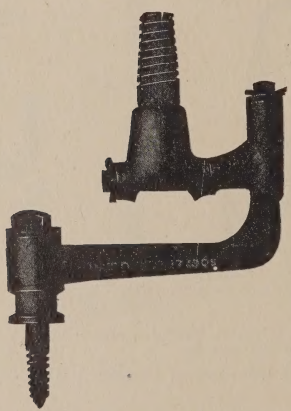
Code Word.	List No.	Mfr. No.		List Price Per 100.
Larcenous	6702	1	Wall bracket	$15.00
Larceny	6703	2	Roof bracket, or top of cross-arm	16.50
Lard	6704	5	Hood bracket, for use on cross bars of Thomson-Houston Hood to take the place of porcelain knobs	15.00
Larder	6705	9	Short bracket for roof, top of cross-arm, etc	15.00
Large	6706	10	Wall bracket for heavy wires	19.20
Lariat	6707	70	Curved base bracket for side of pole	19.20
Lark	6708	15	Wall bracket, extra heavy	27.00
Larrup	6709	25	Wall bracket for feeder wires	36.00
Larva	6710	20	Corner bracket, for chimneys, etc	30.00
Laryngeal	6711	35	Wall bracket, long arm	30.00
Larynx	6712	8	Iron pipe for 1¼ inch hole, for use on standard cross-arms.	19.20
Legging	6785	3	Iron pin for 1½ inch hole, for use on standard cross-arms.	19.20
Legible	6794	6	Iron pin for ½ inch hole	9.90
Legitimate	6795	7	Ceiling or underground angle bracket	19.20
Leeward	6798	40	Ceiling or underground bracket, double	33.00

DUNTON TREE INSULATORS.

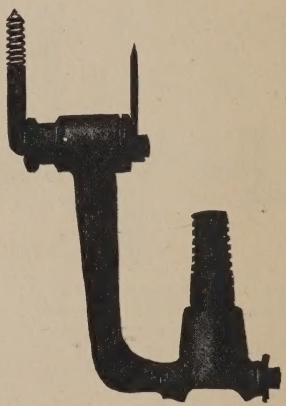
Right Angle Screw.



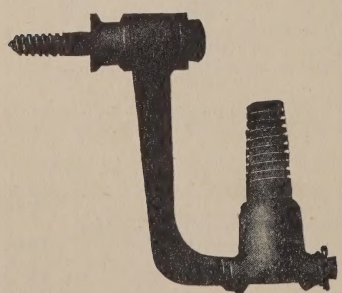
Attachment A 4, Fits either No. 0, No. 1 or No. 2 Insulator.



Insulator with A4 Attachment for Top of Limb.



Insulator with Right Angle Lag Screw to Hang Under Limb.



Insulator for Side of Limb.

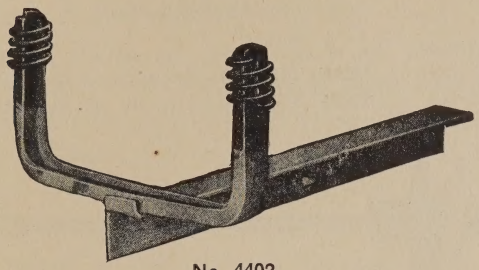
The Dunton Tree Insulator is so constructed that it can be used on any size wire, is absolutely safe, and made from the highest grade of malleable iron. The arms swing on a sleeve, which is lag-screwed to the limb of a tree, and turns in a cone-shaped casting riveted to lower end of arm, which allows the glass to be in a vertical position at all times when tied to the wire. Special lag screws are furnished with these insulators. They are made in three sizes: No. 0, especially adapted for telephone, telegraph and fire alarm wires; No. 1, for all wires up to and including 0000; and No. 2, for railroad work, and capable of carrying any size wire up to and including 1000000 C. M.

Code Word.	List No.	Mfr. No.	List Price, per 100.
Zacafez	14365	0	$56.00
Zacafi	14366	1	67.50
Zacafib	14367	2	97.50
Zacafic	14368	A4 Attachment	30.00
Zacafid	14369	⅜ inch Right Angle Lag Screws	16.00
Zacafif	14370	½ inch Right Angle Lag Screws	18.00
Zacafig	14371	⅝ inch Right Angle Lag Screws	20.00

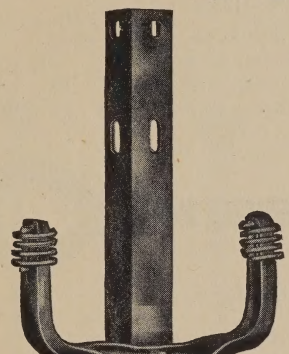
PEIRCE SPECIALTIES.

BRACKETS AND BREAK ARMS.

No. 4401.



No. 4402.



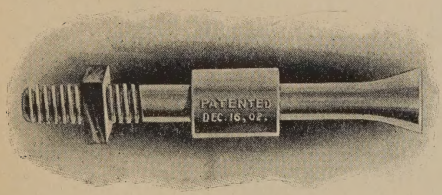
No. 4404.

No. 4405.

No. 4403.

Code Word.	List No.		List Price, Each. Lots of 50.	Lots of 100.	Lots of 500.	Lots of 1,000.
Zacoyop	4401	Three Point Bracket	...	$0.42	$0.39	$0.36
Zacoyor	4402	Peirce Break Arm	$0.408	.374	...	...
Zacoyos	4403	Two Point House Bracket	...	.23	.21	.19
Zacoyot	4404	Underhang Bracket	.484	.46	...	...
Zacoyov	4405	One Point House Bracket	...	.14	.13	.12

PEIRCE EXPANSIVE LEAD BOLTS.

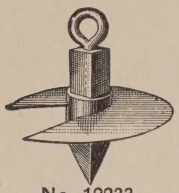


The cheapest and most efficient method for fastening articles of any description to brick, stone or concrete walls. Used largely for telephone and electric light work.

			Size.	List Price, per 100. Lots of 100.	Lots of 500.	Lots of 1000.
Zacoyow	4406		¼x1¾	$4.80	$4.40	$4.00
Zacoyox	4407		¼x2½	4.80	4.40	4.00
Zacoyoy	4408		¼x3¼	6.00	5.50	5.00
Zacoyoz	4409		⅜x2½	8.40	7.70	7.00
Zacoyu	4410		⅜x3	9.00	8.25	7.50
Zacoyub	4411		¾x3½	9.60	8.80	8.00
Zacoyuc	4412		⅜x4½	10.80	9.90	...
Zacoyud	4413		⅜x5	12.00	10.00	...

STOMBAUGH GUY ANCHORS.

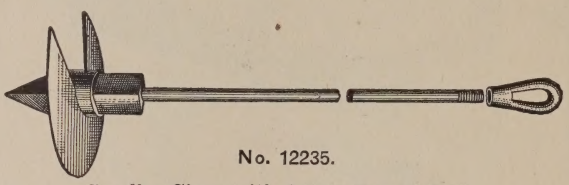
Anchors that hold



No. 12233.

Smaller Sizes without Rods.

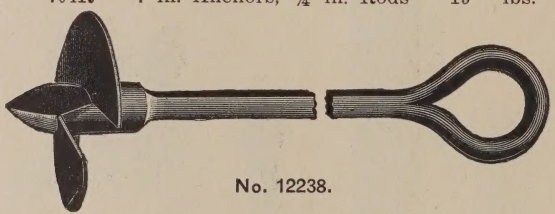
Code Word.	List No.	Mfr. No.	Description.	Weight.	List Price, per 100.	Galvanizing, per Anchor, Net.
Zabolay	12233	500	5 in. Anchors, no Rod	2½ lbs.	$70.00	.....
Zabolaz	12234	600	6 in. Anchors, no Rod	4½ lbs.	125.00	.....



No. 12235.

Smaller Sizes with 6-foot Round Rods.

Zabole	12235	502R	5 in. Anchors, ½ in. Rods	6½ lbs.	115.00	$0.23
Zaboleb	12236	603R	6 in. Anchors, ⅝ in. Rods	10 lbs.	225.00	.35
Zabolec	12237	704R	7 in. Anchors, ¾ in. Rods	15 lbs.	450.00	.52



No. 12238.

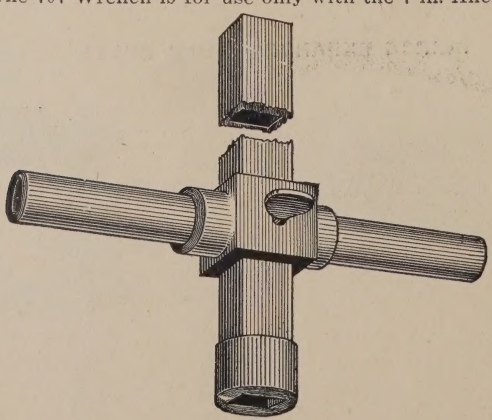
Larger Sizes with 6-foot Square Rods.

					List Price, Each.	
Zaboled	12238	800	8 in. Anchors, 1⅛ in. Rods	38 lbs.	7.50	1.33
Zabolef	12239	1000	10 in. Anchors, 1¼ in. Rods	50 lbs.	11.25	1.75
Zaboleg	12240	1200	12 in. Anchors, 1½ in. Rods	80 lbs.	15.00	2.80

Galvanizing net. No further discount.

WRENCHES.

A Wrench must be used to install the 5 in., 6 in. and 7 in. Anchors.
The 560 Wrench will fit either Rod or Rodless 5 and 6 in. Anchors.
The 707 Wrench is for use only with the 7 in. Anchors.



No. 12241.

Zaboleh	12241	560	15 lbs.	5.10
Zabolek	12242	707	20 lbs.	6.50

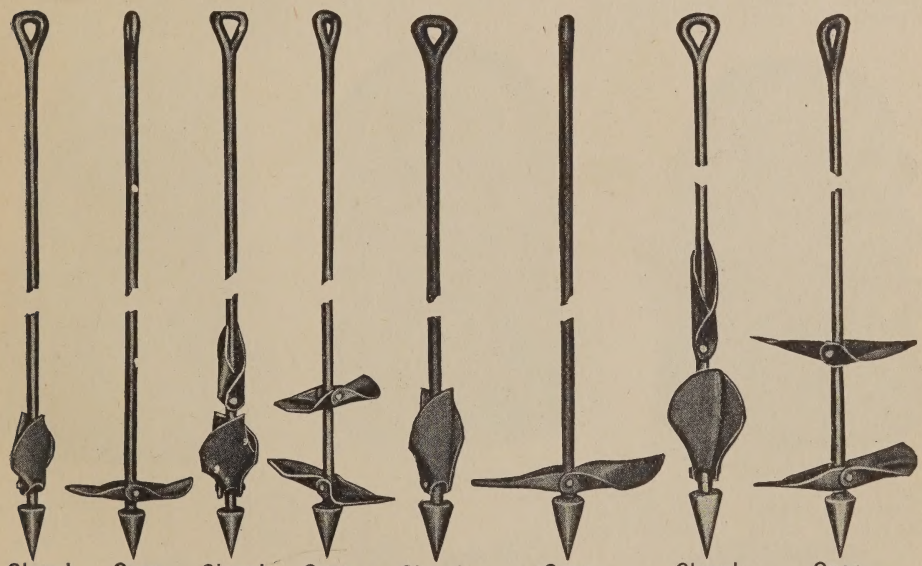
Drive & Twist

D. AND T. ANCHORS.

FOR GUYING POLES.

Drive & Twist

The anchor is driven into the ground the desired depth with sledge or maul. The blades are set by twisting to the right three revolutions. The design of the blades, like those of a screw propeller, causes them to spread when the anchor is twisted. The pitch is such that they spread to an angle of ninety degrees with the rod in three revolutions. The spreading of the blades sinks the anchor about one inch, so that there is absolutely no lost motion in the ground. The pull is on solid earth that has not been disturbed. The anchor can be set by one man in sixty seconds and will hold more than any other anchor manufactured.



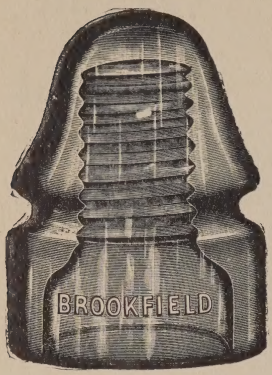
No. 27452. No. 27453. No. 27454. No. 27455.

Code Word.	List No.	Mfr. No.	Span of Blades.	Width of Blades.	Length of Shaft.	Diameter of Shaft.	Diameter of Pin.	List Price, Each.
Zadamug	27452	1	8 inch	2½ inch	5 feet	⅝ inch	5-16 inch	$0.75
Zadamuh	27453	2	8 inch	2½ inch	5 feet	⅝ inch	5-16 inch	1.25
Zadamuk	27456	2 Special	11 inch	2½ inch	5 feet	⅞ inch	5-16 inch	1.35
Zadamul	27454	3	12 inch	3½ inch	6 feet	⅞ inch	½ inch	1.50
Zadamum	27455	4	12 inch	3½ inch	6 feet	⅞ inch	½ inch	2.25

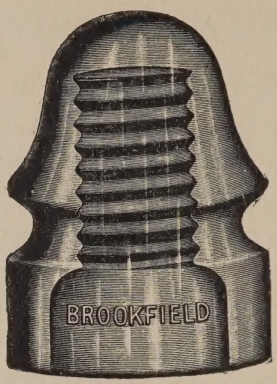
Nos. 2 and 4 have two pairs of blades at right angles to each other.

No. 2 Special is designed to replace No. 2 in hard, dry clay where the torsional strain is too great for a ⅝-inch shaft.

BROOKFIELD GLASS INSULATORS.



No. 28141.



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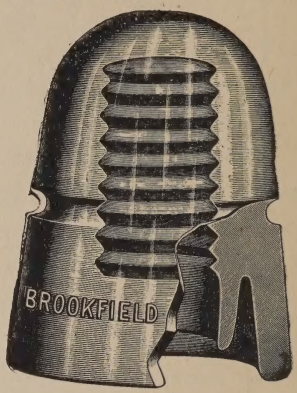
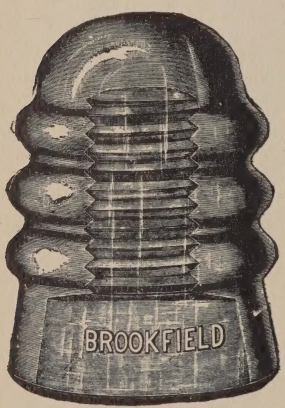
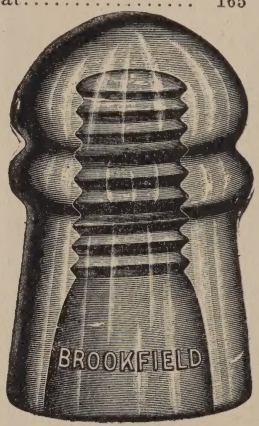


No. 28143.

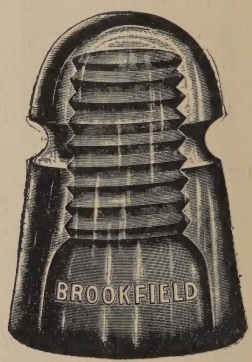
Code Word.	List. No.		No. in bbl.	Wt. per 1000.	Groove.	Thread.
Zadevig	28141	Regular	250	1100 lbs.	¼ in.	Standard
Zadevih	28142	Deep groove	200	1275 lbs.	½ in.	Standard
Zadevik	28143	Double petticoat	165	1500 lbs.	¼ in.	Standard



No. 28144.

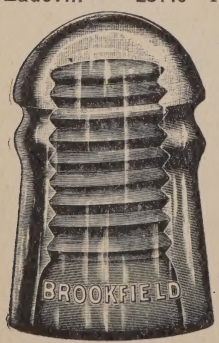


No. 28145.

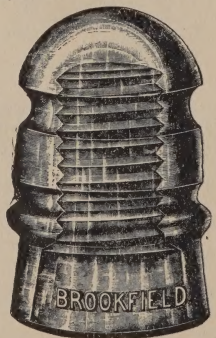


No. 28146.

Zadevil	28144	Large double groove	165	1700 lbs.	¼ in.	Standard
Zadevim	28145	Western Union	200	1450 lbs.	¼ in.	Standard
Zadevin	28146	National Pony	300	850 lbs.	¼ in.	Standard



No. 28147.



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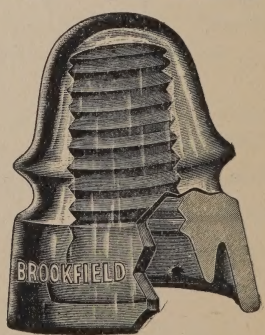
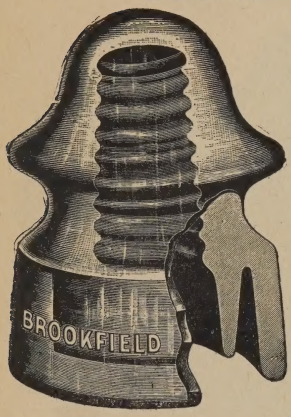
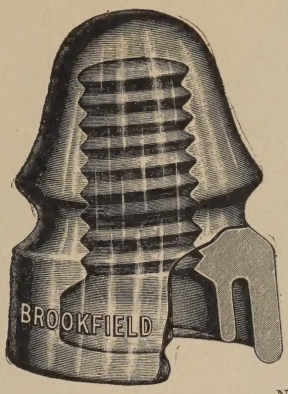


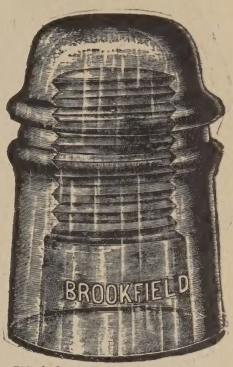
No. 28149.

Zadevip	28147	Pony	350	725 lbs.	¼ in.	Standard
Zadevir	28148	Double groove pony	340	760 lbs.	¼ in.	Standard
Zadevis	28149	Pony double petticoat	275	950 lbs.	7/16 in.	Standard

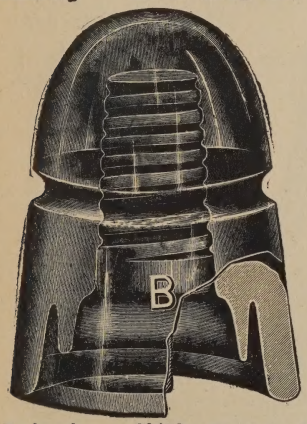
BROOKFIELD GLASS INSULATORS.

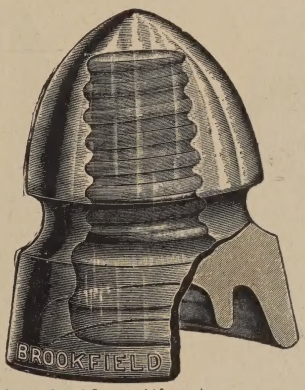


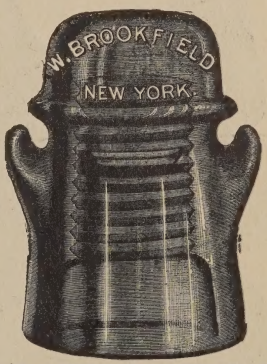




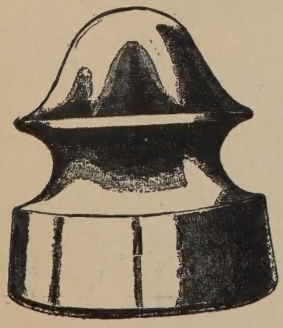
Code Word.	List No.		No. in Bbl.	Weight per 1000.	Groove.	Thread.
Zadeved	28150	Extra deep groove, double petticoat.....	165	1550	1/8	Standard
Zadevef	28151	Deep groove, double petticoat.....	175	1475	5/8	Standard
Zadeveg	28152	Long distance.....	225	1050	1/4	Standard

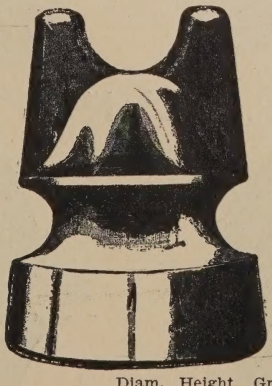






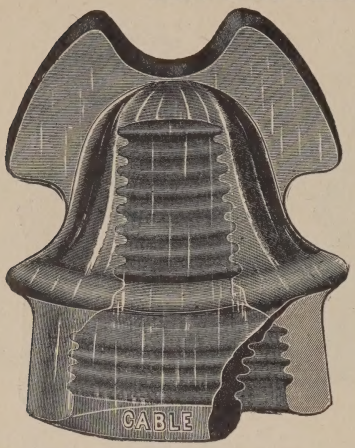
Zadeveh	28153	Western Union double petticoat.....	200	1700	1/4	Standard
Zadevek	28154	"Burbrook"	175	1550	1/16	Standard
Zadevel	28155	O'Brien	225	900	1/4	Standard

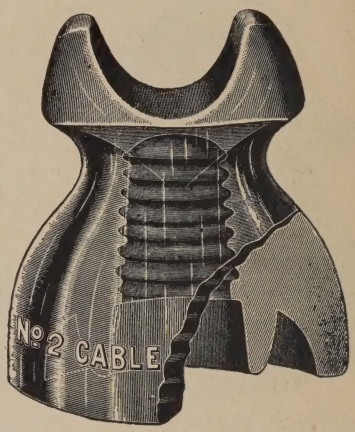




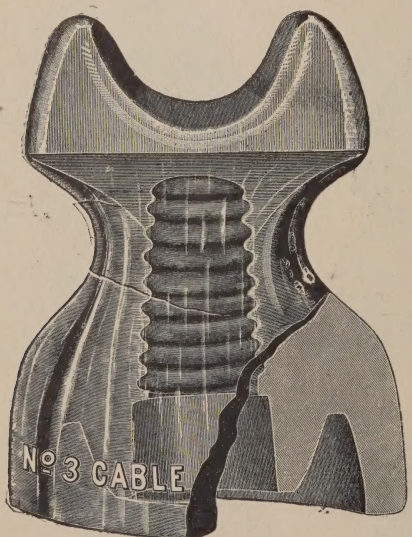
			Diam. Inches.	Height. Inches.	Groove. Inches.			
Zadevem	28156	Jumbo	5	5¾	1½	44	5540	Special
Zadeven	28157	New Jumbo.....	5	7	2	33	6315	Special
Zadevep	28158	Combination Safety...	..	...	1/4	200	1175	Standard

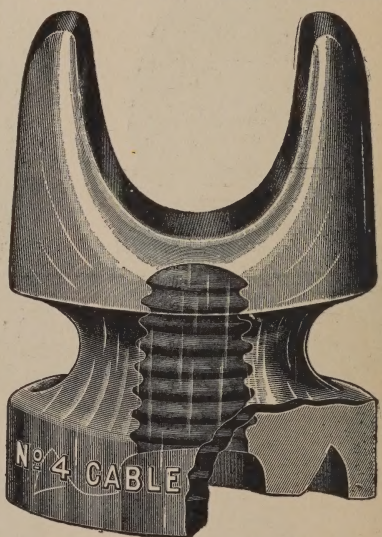
BROOKFIELD GLASS INSULATORS.



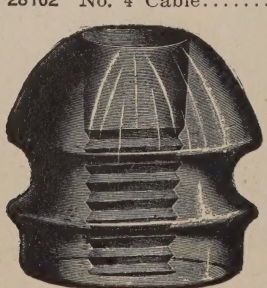


Code Word.	List No.		Diam. Inches.	Height. Inches.	Top Groove. Inches.	Side Groove. Inches.	No. in Bbl.	Weight Per 1000 Pounds.	Thread.
Zadevax	28159	Cable	3½	4½	1¼	¾	110	2100	Standard
Zadevay	28160	No. 2 Cable	3¾	4	1¼	..	125	2000	Standard



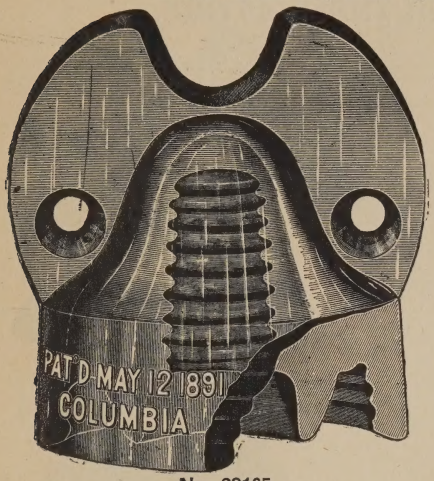


Zadevaz	28161	No. 3 Cable	4¼	5½	2	1¾	50	3950	Standard
Zadeve	28162	No. 4 Cable	4	5¼	2¼	1¼	50	3875	Standard

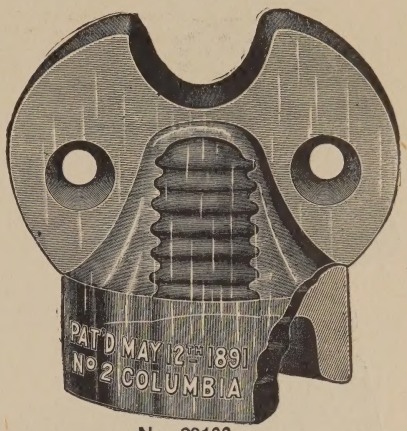


Zadeveb	28163	Brown Pony	¼	350	750	Standard
Zadevec	28164	Brown deep groove	½	250	950	Standard

BROOKFIELD GLASS INSULATORS.

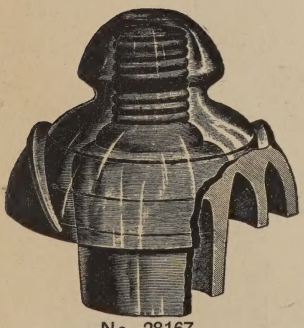


No. 28165.

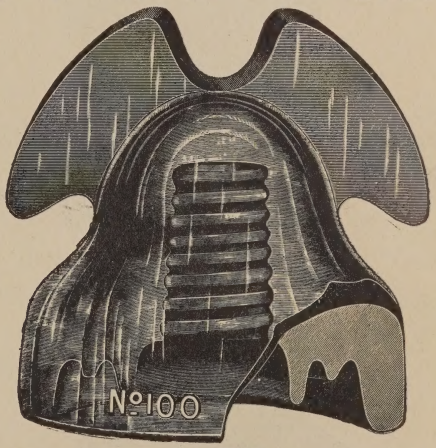


No. 28166.

Code Word.	List No.		Diam. Inches.	Height. Inches.	Groove. Inches.	No. in Bbl.	Weight Per 1000. Pounds.	Thread.
Zadevap	28165	Columbia	4	4¾	1⅜	78	2860	Standard
Zadevar	28166	No. 2 Columbia.....	3¼	4	1⅜	110	1715	Standard

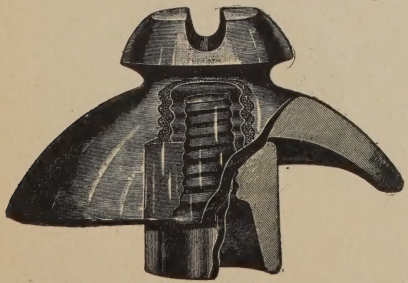


No. 28167.



No. 28188.

Zadevas	28167	Mershon	5	⅝	50	3580	Standard
Zadevat	28168	No. 100 Cable, 2 piece.	4¼	4½	1¼	60	2160	Standard

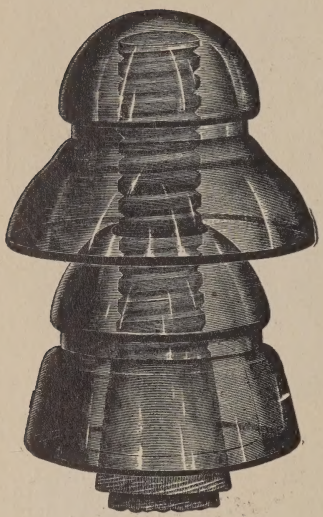


No. 28169.

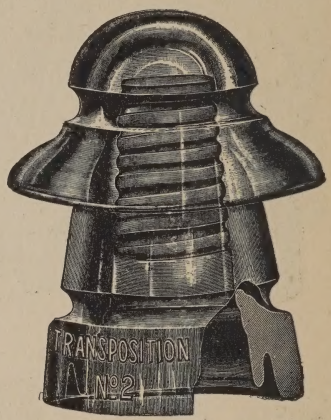
No. 28170.

					Top Groove.	Side Groove.			
Zadevav	28169	Edison two piece.....	8½	5¾	¾	½	20	9500	Standard
Zadevaw	28170	Tree Insulator..... ..	..	..	..	5/16	250	965	....

BROOKFIELD GLASS INSULATORS.

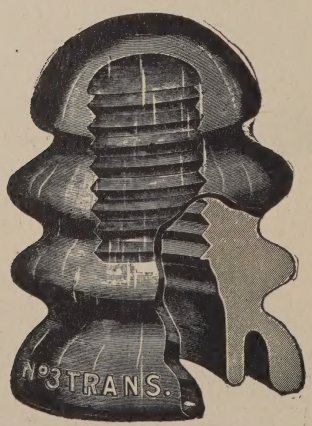


No. 28187.

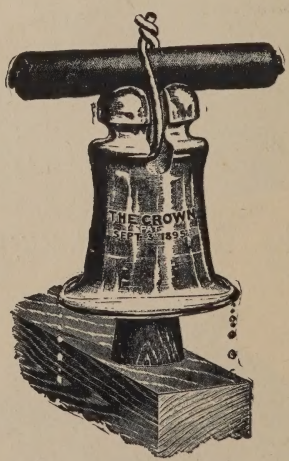


No. 28188.

Code Word.	List No.		Groove, Inch.	No. Pairs in Bbl.	Weight per 1000.	Thread.
Zadevib	28187	Two piece transposition.....	¼	125	2000	Special
Zadevic	28188	One piece transposition, No. 2....	5/16	125	1650	Standard



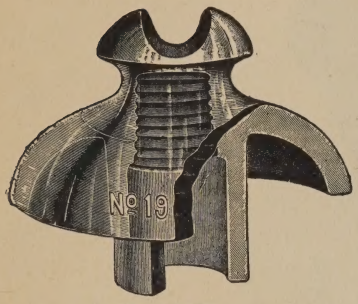
No. 28189.



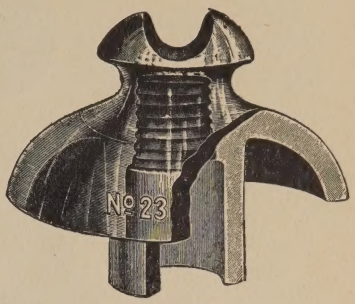
No. 28190.

Zadevid	28189	One piece transposition, No. 3....	⅜	125	1900	Standard
Zadevif	28190	Crown	½	175	1575	Standard

BROOKFIELD GLASS INSULATORS.

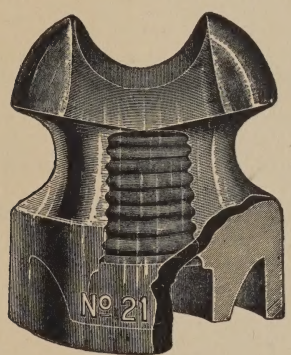


No. 28178.



No. 28179.

Code Word.	List No.		Diam. Inches.	Height. Inches.	Top Groove. Inches.	Side Groove. Inches.	No. in Bbl.	Weight Per 1000. Pounds.	Thread.
Zadever	28178	No. 19 Locke.....	7½	6	1¼	1	30	7000	Special
Zadeves	28179	No. 23 Locke.....	9	6	1¼	1	20	9450	Special



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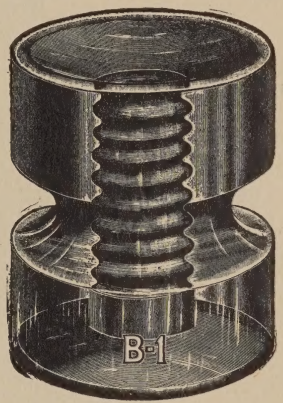
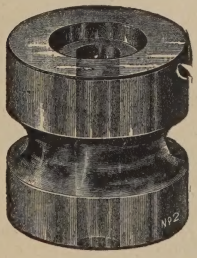


No. 28182.

Zadevet	28180	No. 21 Locke.....	4	4	1⅝	1⅜	75	2625	Special
Zadevev	28181	No. 22 Locke.....	4	4	1⅝	1⅜	75	2625	Standard
Zadevew	28182	Mine insulator.....	..	..	..	$\frac{9}{16}$	150	1000	Standard

KNOB INSULATORS.

No. 28183.



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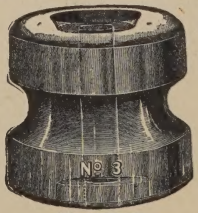
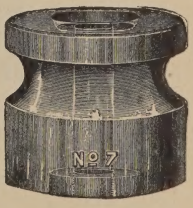


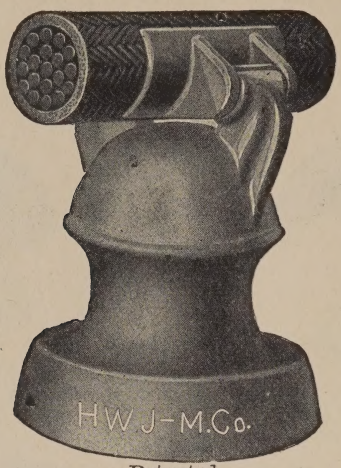
No. 28185.



No. 28186.

			Width, Inches.	Height, Inches.	Groove, Inches.	Hole, Inches.		
Zadevex	28183	No. 1.....	1½	1¾	⅜	⅜	500	220
Zadevey	28184	No. 2.....	2	1⅞	⅝	⅜	500	500
Zadevez	28185	No. 3.....	2	2	⅝	⅜	500	530
Zadevi	28186	No. 7.....	2	2	⅝	⅜	500	530

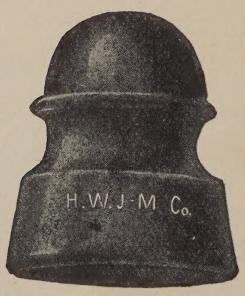
TOGGLE CLAMP FEED WIRE INSULATOR.

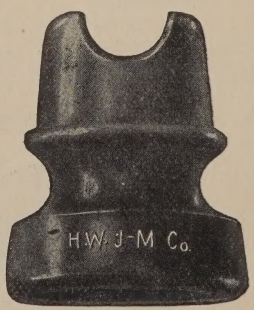


Patented.

Code Word.	List No.	Mfr. No.		List Price, Per 100.
Zigow	10820	907	Toggle Clamp Insulator; galvanized malleable iron shell, ⅞ inch over insulation (0000 wire); weight, 51 ounces	$137.50
Zigox	10821	908	Toggle Clamp Insulator; galvanized malleable iron shell, 1¼ inches over insulation (500,000 C. M.); weight, 52 ounces	137.50
Zigoz	10822	909	Toggle Clamp Insulator; galvanized malleable iron shell, 1½ inches over insulation (750,000 C.M.); weight, 53½ ounces	137.50
Ziha	10823	910	Toggle Clamp Insulator; galvanized malleable iron shell, 1 9/16 inches over insulation (1,000,0000 C.M.); weight, 53½ ounces	137.50

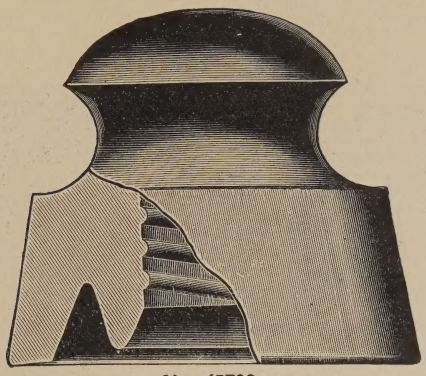
MOULDED MICA FEED WIRE INSULATORS.





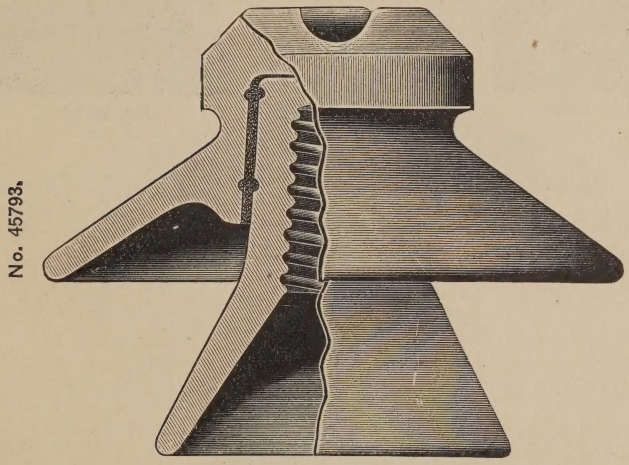
Zifog	10713	900	Moulded Mica Plain Pole Insulator; side groove only, for 500,000 C.M. cable and under; weight, 16½ ounces	87.50
Zifoh	10714	901	Moulded Mica Insulator; "top and side groove," 1½-inch diameter, for cables above 500,000 C.M.; weight, 18 ounces	125.00
Zifok	10715	902	Moulded Mica Insulator; "top and side groove," 1¼-inch diameter, for 500,000 C.M. cables and under; weight, 22 ounces	112.50
Zifol	10716	903	Moulded Mica Insulator; side groove only, 1¾-inch diameter, for cables above 500,000 C.M. up to 1,250,000 C.M. cable; weight, 22 ounces	100.00

PORCELAIN SPECIALTIES.



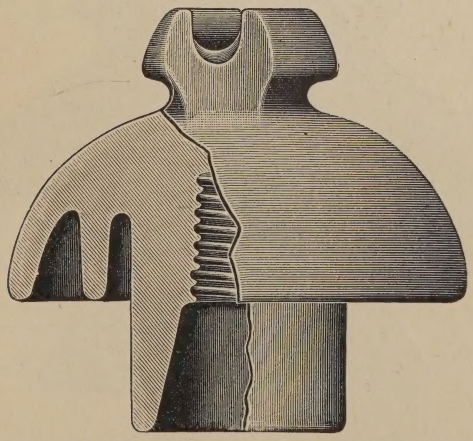
No. 45792.

Code Word.	List No.		Test Voltage.	Line Voltage.	Diameter.	Height.	Pieces.
Zuheg	45792	No. 17 Insulator.....	.....	4,000	3⅛ in.	2⅝ in.	1



No. 45793.

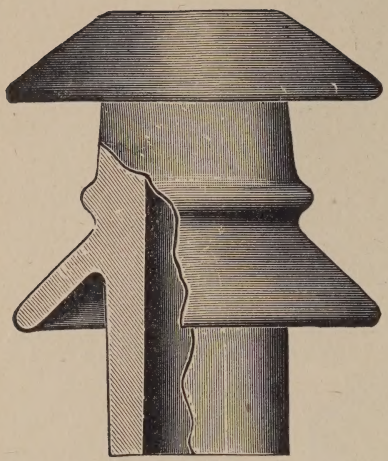
Zuheh	45793	No. 71404.....	65,000	20,000	6½ in.	5 in.	2



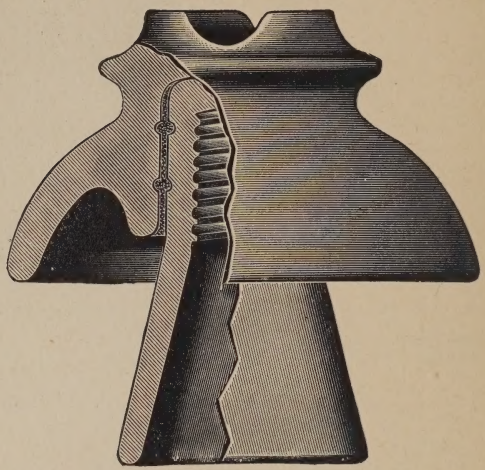
No. 45794.

Zuhek	45794	Type SF.....	65,000	25,000	7 in.	6½ in.	1

PORCELAIN SPECIALTIES.

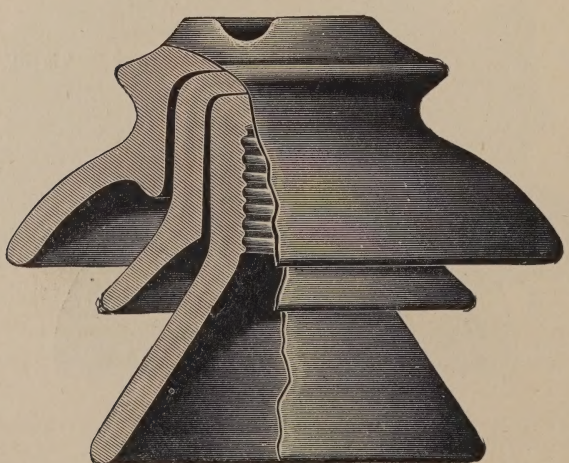


No. 45789.



No. 45790.

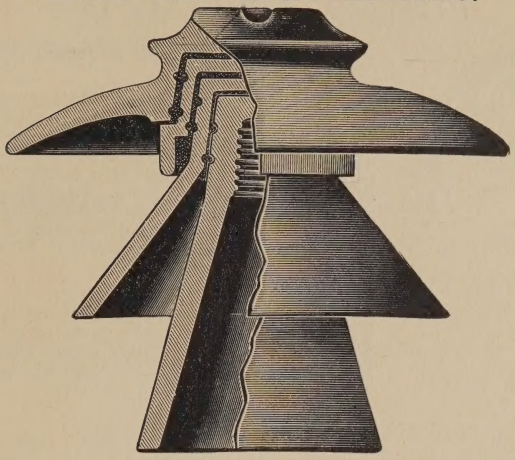
Code Word.	List No.		Test Voltage.	Line Voltage.	Diameter. Inches.	Height. Inches.	Pieces.
Zuheb	45789	Anchorage Insulator, Type T..	50,000	15,000	7½	9	1
Zuhec	45790	No. 4704.....	70,000	23,000	7	6¾	2



No. 45791.

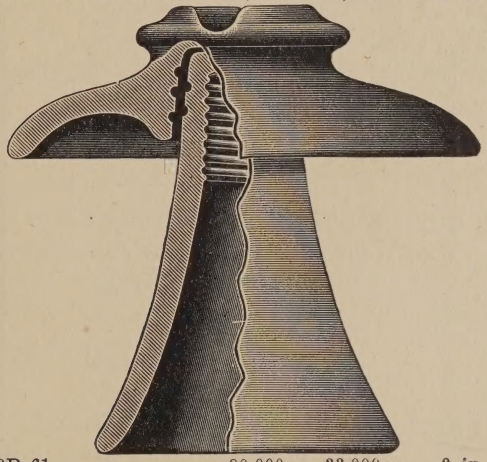
Zuhef	45791	No. 3P—62.....	80,000	35,000	8½	6¾	3

PORCELAIN SPECIALTIES.



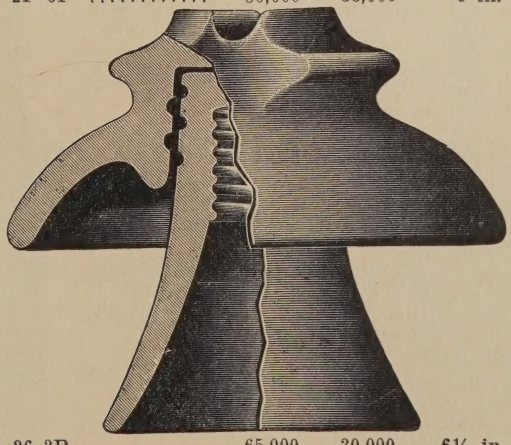
No. 47980.

Code Word.	List No.		Test Voltage.	Line Voltage.	Diameter.	Height.	Pieces.
Zabarel	47980	Kern	140,000	60,000	14 in.	12½ in.	4



No. 47981.

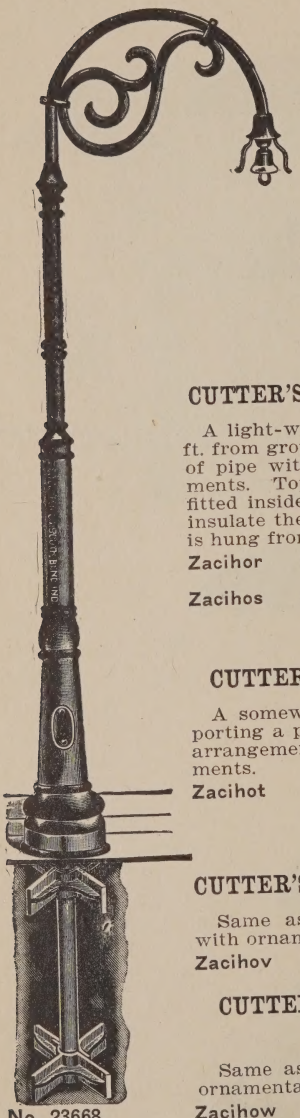
Zabarem	47981	2P-61	80,000	33,000	9 in.	8⅜ in.	2



No. 47982.

Zabaren	47982	26-2P	65,000	20,000	6½ in.	5¼ in.	2

CUTTER SPECIALTIES.



No. 23668.

CUTTER'S STREET CROOK.

A firm, well-built street pole supporting a high voltage Insulator 18 ft. above the street and 3 ft. from the pole. Column is built up of pine, top crook is 1¼ inch pipe, upper section 2½ inch, and the middle section is of 4 inch pipe, cast iron base, has two doors and supports two sets of cast iron anchor plates. Provision is made in the top ground anchor for underground wiring. Doors are fastened with bolts unless otherwise ordered, hinged doors no extra charge. Iron insulator arm (removable pin or ladder rest when ordered).

Code Word.	List No.		List Price, Each.
Zacihol	23668	Cutter's Street Crook.....	$22.50
Zacihom	23669	Cutter's Twin Street Crook.....	25.00
Zacihon	23670	Cutter's Triple Street Crook....	27.50
Zacihop	23671	Cutter's Quadruple Street Crook	30.00

CUTTER'S PARK CROOK.

A light-weight fixture holding arc 18 ft. from ground. Has a built up column of pipe with cast iron base and ornaments. Top crook is of 1¼ inch pipe fitted inside with porcelain bushings to insulate the wires from the pole. Lamp is hung from a high voltage Insulator.

Zacihor	23672	Complete, without wiring...	19.50
Zacihos	23673	Same, without anchor plates.	17.50

CUTTER'S TWIN ARC CROOK.

A somewhat similar fixture for supporting a pair of arc lamps. Has same arrangement, but lighter cast ornaments.

Zacihot	23674	Complete, with high voltage insulator	22.00

CUTTER'S TRIPLE ARC CROOK.

Same as the Twin Arc Crook, but with ornamental crooks for 3 arc lamps.

Zacihov	23675	.....	24.50

CUTTER'S QUADRUPLE ARC CROOK.

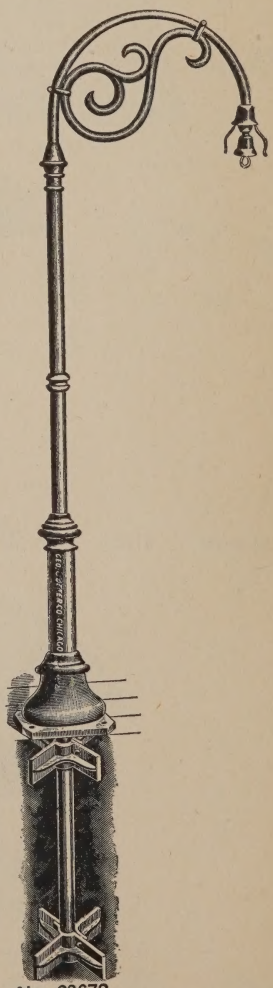
Same as Twin Arc Crook, but with ornamental crooks for 4 arc lamps.

Zacihow	23676	.....	27.00

CUTTER'S TALL CROOK.

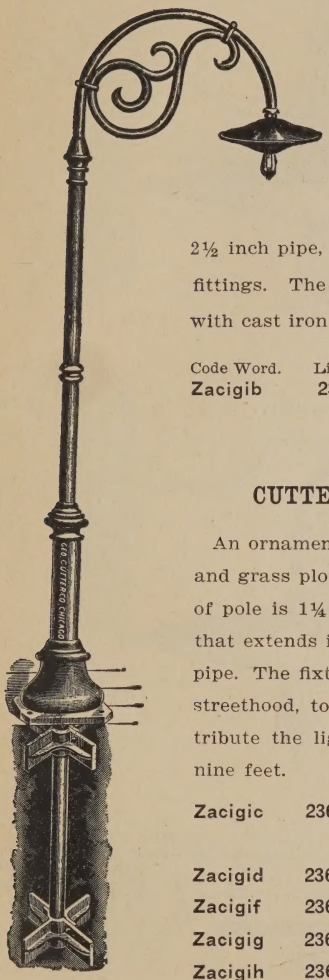
An ornamental top, designed to slip over a 5-inch wood pole and to hold an arc lamp three feet from the same. Is ornamented, has a Cutter High Voltage Insulator at the outer end, and bushings allowing the wires to be run through the piping.

Zacihox	23677	Cutter's Tall Crook (unwired)...	5.50
Zacihoy	23678	Cutter's Tall Crane (same as the above, but without the ornamentation)	4.00



No. 23672.

CUTTER SPECIALTIES.



CUTTER'S DRIVEWAY CROOK.

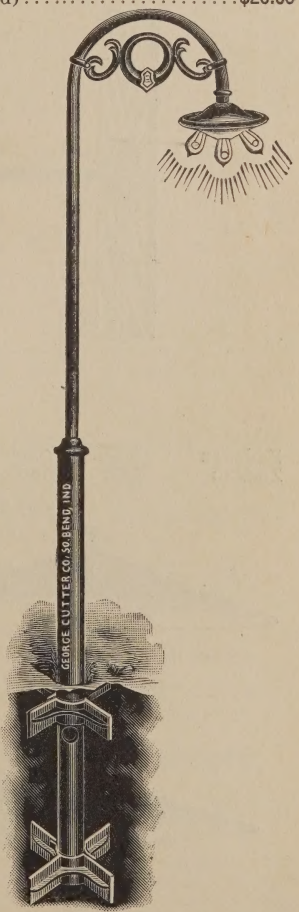
An ornamental fixture holding the lamp 14 feet above the ground. Top crook is made of 1¼ inch pipe with cast iron ornamentation. Column of pole is of 2½ inch pipe, and the base is built up of 3 and inch pipe with cast iron fittings. The 2½ inch piping extends on into the ground and is fitted with cast iron anchor plates which steady the fixture.

Code Word.	List No.		List Price, Each.
Zacigib	23612	Complete with hood, reflector and socket. (State base of socket wanted)	$20.00

CUTTER'S LAWN CROOK.

An ornamental fixture for lighting lawns and grass plots. The crook and upper part of pole is 1¼ in. pipe, and the lower part that extends into the ground is of 2½ inch pipe. The fixture is supplied with Cutter's streethood, to protect the socket and distribute the light evenly from a height of nine feet.

Zacigic	23613	With single Edison socket	$8.00
Zacigid	23614	Same with 2 lights.	8.25
Zacigif	23615	Same with 3 lights.	8.50
Zacigig	23616	Same with 4 lights.	8.75
Zacigih	23617	Same with 5 lights.	9.00

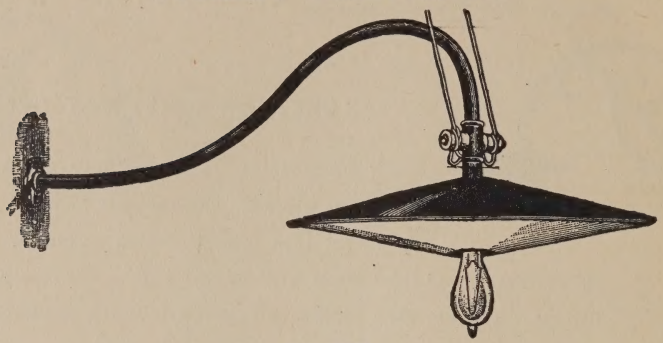


CUTTER'S LAWN CRANE.

Same as above, but without the ornamentation.

Zacigik	23618	With single Edison socket	7.00
Zacigil	23619	Same with 2 lights	7.25
Zacigim	23620	Same with 3 lights	7.50
Zacigin	23621	Same with 4 lights	7.75
Zacigip	23622	Same with 5 lights	8.00

STREET BRACKETS.



No. 8897.

STYLE "A."

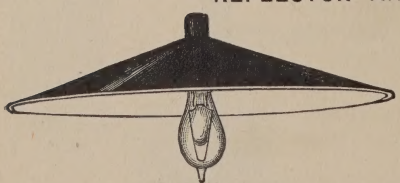
Code Word.	List No.		List Price Each.
Zadexoy	8897	Complete with Deflector for ⅜-inch socket.....	$2.50

No. 8898.

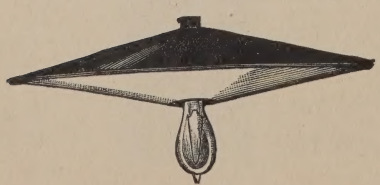
STYLE "B."

			Bracket only.	With 15-in. Reflector.	With 15-inch. Deflector.
Zadexoz	8898	30-inch	.75	1.65	1.85
Zadexu	8899	36-inch	.85	1.75	1.95

REFLECTOR AND DEFLECTOR SHADES.



No. 8900.

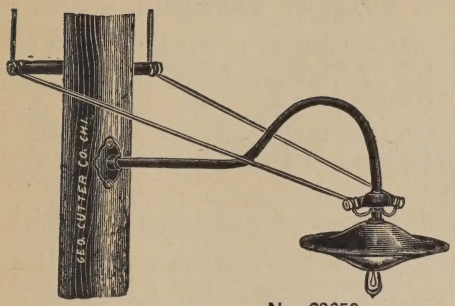


No. 8902.

For ⅜-inch Socket.

Zadexub	8900	15-inch	.90
Zadexuc	8901	18-inch	1.20
Zadezud	8902	15-inch	1.10
Zadexuf	8903	18-inch	1.80

CUTTER SPECIALTIES.



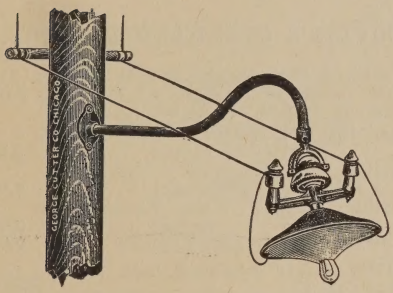
No. 23650.

CUTTER'S URBAN STREETHOOD.

A bracket streethood with a spreader over the hood so that the wires can be run through the nipple. Fibre insulation separates the spreader from the streethood proper, reducing the risk of leakage on low voltage circuits.

Code Word.	List No.		List Price, Each.
Zacihoz	23650	With 3 ft. gooseneck and Edison socket...	$1.60
Zacihu	23651	Same, with T-H socket	1.60
Zacihub	23652	Same with Wghse socket	1.60
Zacihuc	23653	Same, with series nozzle only.....	1.45

(For brace-arm shown at back of pole, add 28 cents. For longer goosenecks add 7 cents per extra foot.)

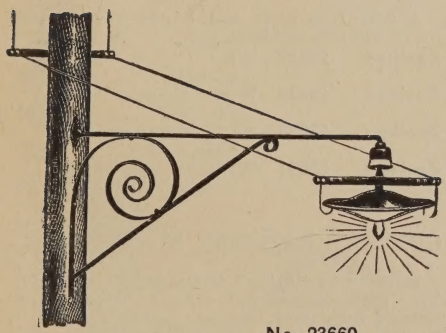


No. 23654.

CUTTER'S TILTING HOOD.

A bracket streethood with a reversible clamp at the end of gooseneck allowing the hood to be horizontal or tilted as pictured. Regularly furnished with 3 ft. gooseneck insulated from the hood by a double petticoated reflector.

Zacihud	23654	Cutter's tilting hood, with 3 ft. gooseneck of ½ inch piping and with Edison socket..	2.00
Zacihuf	23655	Same, with T-H socket	2.00
Zacihug	23656	Same, without socket or nozzle.....	1.85
Zacihuh	23657	Cutter's Tilting Hood, with 5 ft. gooseneck of ¾ inch pipe and with Edison socket..	2.25
Zacihuk	23658	Same, with T-H socket	2.25
Zacihul	23659	Same, without socket or nozzle.....	2.00

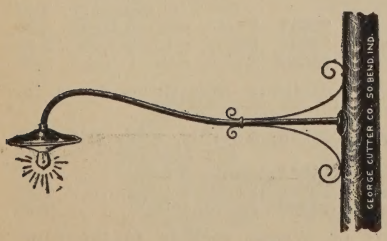


No. 23660.

CUTTER'S "AVENUE" STREETHOOD.

An ornamental bracket streethood similar to Cutter's "Boulevard" streethood, with a high voltage insulator to adapt the fixture for use on high potential circuits.

Zacihum	23660	Without brace - arm, but with T-H base porcelain shell socket	2.70
Zacihun	23661	Same, with Edison socket	2.70
Zacihup	23662	Same, with Westinghouse socket.....	2.70
Zacihur	23663	Same, without socket or nozzle.....	2.45



No. 23664.

CUTTER'S ELITE STREETHOOD.

A five-foot ornamental bracket, with hood and reflector arranged for inner wiring, and with heavy (¾ inch bore) piping.

Zacihus	23664	With Edison socket...	2.00
Zacihut	23665	With T-H socket.....	2.00
Zacihuv	23666	With Wghse socket...	2.00
Zacihuw	23667	With series nozzle only	1.85

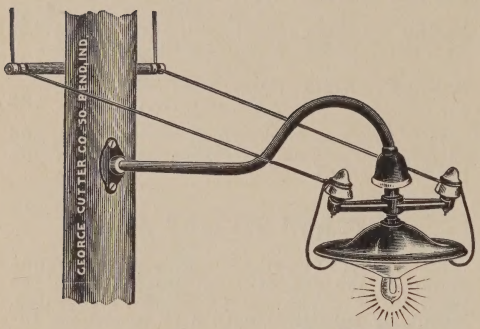
CUTTER SPECIALTIES.

No. 23632.

CUTTER'S ENTRANCE HOOD.

An ornamental bracket fixture with the pipe extending 3 feet outside of the flange and 1 foot inside the same (Other lengths made to order.)

Code Word.	List No.		List Price, Each.
Zacihux	23632	With Edison base socket	$2.35

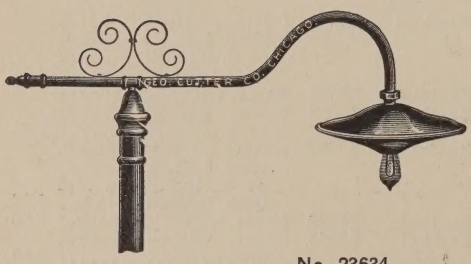


No. 23633.

CUTTER'S GOLIATH STREETHOOD.

An extra heavy fixture with a 5 foot gooseneck of ¾ inch pipe, a high voltage hood insulator, iron cross-arm, porcelainized reflector and film socket

Zacihuy	23633		3.82



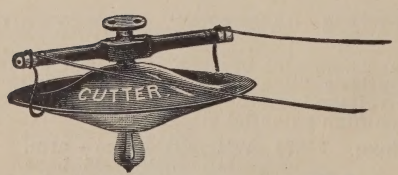
No. 23634.

CUTTER'S OVERHANGING HOOD.

With 3 foot overhang and cap for 2½ inch (bore) iron pipe, or a wood pole trimmed to 3 inches at the top.

Zacihuz	23634	With Edison base socket	2.50
Zacika	23635	With T-H base socket	2.50
Zacikab	23636	With Wghse base socket	2.50
Zacikac	23637	With series nozzle.	2.35

(For longer overhang, add 7 cents per extra foot.)

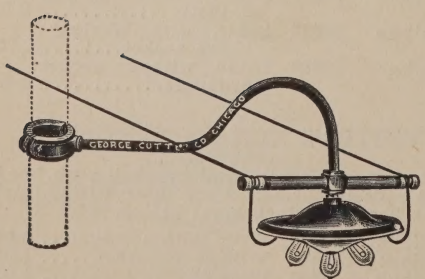


No. 23638.

CUTTER'S DOORWAY HOOD.

With cross-arm and flange for use in doorways, on bridges, etc.

Zacikad	23638	With T-H base socket	1.20
Zacikaf	23639	With Edison base socket	1.20
Zacikag	23640	With Westinghouse base socket	1.20
Zacikah	23641	Without socket or nozzle	.95



No. 23642.

CUTTER'S RAILWAY STREETHOOD.

Similar to Cutter's Standard Streethood, but with clamp for standard iron pipe poles 5 inch bore.

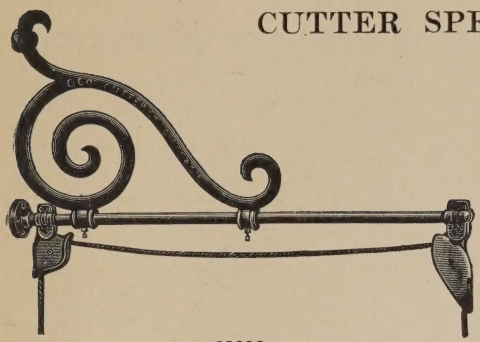
Zacikak	23642	3 light, with Edison socket and clamp for 5 in. bore	2.40
Zacikal	23643	Same, with 5 lights	2.90
Zacikam	23644	Same, with 2 lights	2.15
Zacikan	23645	Same, with 1 light.	1.90

Cutter's Railway Streethood for 6 in. iron pipe poles.

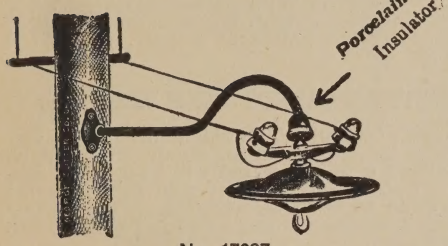
Zacikap	23646	5 lights, with Edison sockets	3.00
Zacikar	23647	Same, 3 lights	2.50
Zacikas	23648	Same, 2 lights	2.25
Zacikat	23649	Same, 1 light	2.00

(T-H or Wghse sockets at the same price.)

CUTTER SPECIALTIES.



23692.



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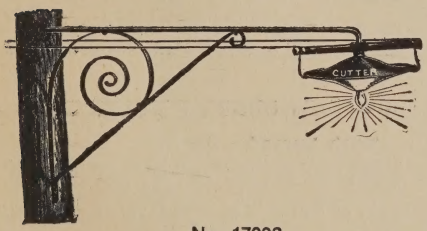

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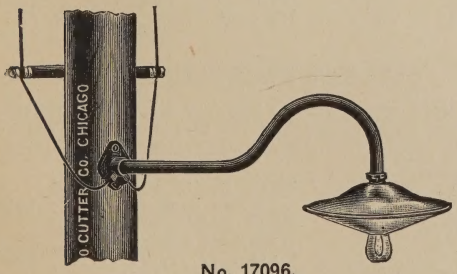

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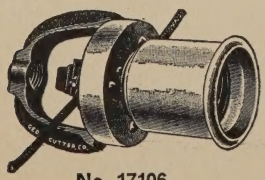


No. 17106.

CUTTER'S SCROLL PULLEYED OUTRIGGER.

An ornamental fixture with inner weatherproof pulley and outer lamp supporting pulley for lowering the lamp.

Code Word.	List No.		List Price, Each.
Zacigum	23692	6-foot, complete except rope	$2.00
Zacigun	23693	Same, with triple insulation arm fitted to pulley knob	2.75
Zacigup	23694	3-foot, without rope	1.80
Zacigur	23695	Same, with triple insulation arm fitted to pulley knob	2.55

Use ⅜ or ½-inch "Banner Core" Rope with these outriggers. For corner plates add 20c. to the above prices.

CUTTER'S EASTERN STREETHOOD.

An "Iron Arm" hood with a high voltage insulator between the iron cross-arm and the gooseneck.

Zafof	17087	Without brace-arm, but with the 3-foot gooseneck and T-H base porcelain shell socket	2.17
Zafog	17088	Same, with Edison socket	2.17
Zafoh	17089	Same, with Wghse socket	2.17
Zafok	17090	Same, without socket or nozzle	1.92
Zafol	17091	(For brace-arm back of pole, add 28 cents.)	

CUTTER'S BOULEVARD STREETHOOD.

An ornamental form of Cutter's Standard Streethood, with a 5-foot bracket and wrought iron scroll trimmings. Other lengths to order.

Zafom	17092	With brace-arm and T-H base porcelain shell socket	2.50
Zafon	17093	Same, with Westinghouse socket	2.50
Zafop	17094	Same, with Edison socket	2.50
Zafor	17095	Same, with socket or nozzle	2.25

CUTTER'S INNER-WIRED HOOD.

Price does not include wiring, nor the brace-arm at back of pole.

Zafos	17096	With Edison socket	1.45
Zafot	17097	With T-H socket	1.45
Zafov	17098	With Wghse socket	1.45
Zafow	17099	With ⅜-inch nozzle	1.20
Zafox	17100	With ⅛-inch nozzle	1.20
Zafoz	17101	Without nozzle	1.10

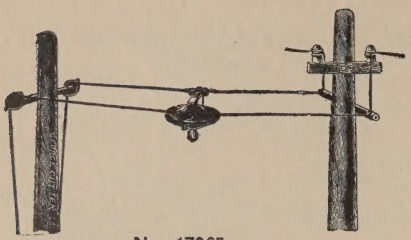
FLIM SOCKET.

Cutter's Adaptation of the General Electric Socket.

For large base Edison series lamps, with the socket part removable for replacing the lamps and renewing the film without interrupting the circuit.

Zagag	17106	With hood fork (to fit any George Cutter streethood)	1.00

CUTTER SPECIALTIES.

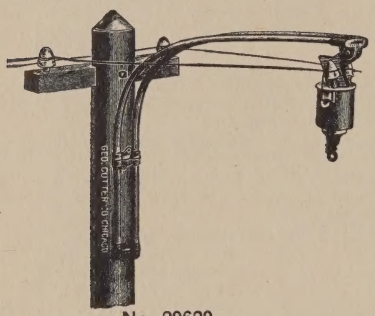


No. 17065.

CUTTER'S "ALWAYS LEVEL" STREET-HOOD.

Is the only suspension streethood that will stay level in windy weather. The two wires leading to the hood make up one side of the suspension, while cords passing over covered pulleys form the other side, so that the hood is supported from four points. The pulleys are mounted on a wrought-iron bracket, while a wrought-iron brace-arm is used at the other pole. Then an adjusting clamp is placed at the end of each cord, so that these cords can be independently drawn up taut and then locked together. Shipped complete with porcelain shell socket, spreader-tip arm, iron brace arm, iron pulley arm and pair of adjusting clamps.

Code Word.	List No.		List Price, Each.
Zafez	17065	With T-H socket.....	$3.00
Zafi	17066	With Edison socket.....	3.00
Zafiib	17067	With Wghse socket.....	3.00
Zafid	17068	Without socket.....	2.75

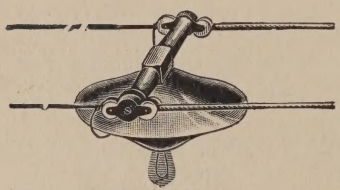


No. 29629.

CUTTER'S SAFETY POLE FIXTURE.

Fitted with Cutter's cutout pulley which disconnects the lamp from the circuit for trimming and allows it to be lowered while the wires stay up taut. The only bracket pole fixture which allows the lamp to be trimmed on the ground without lowering the line wires and without risk of accidents.

Zacikav	23629	With pole pulley and curved pole plate.....	7.00
Zacikaw	23630	Same, with pole pulley and flat wall plate.....	7.00



No. 17069.

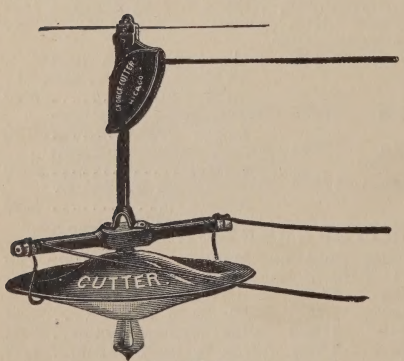
CUTTER'S CENTER HOOD.

With Spreader-tip Arm.

Zafif	17069	With Edison base socket.	1.40
Zafig	17070	With T-H base socket..	1.40

Center part of Cutter's always level streethood.

Zafih	17071	With Wghse base socket.	1.40
Zafik	17072	With series nozzle.....	1.25
Zafil	17073	Without socket or nozzle	1.15



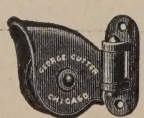
No. 17072.

CUTTER'S SWINGING HOOD.

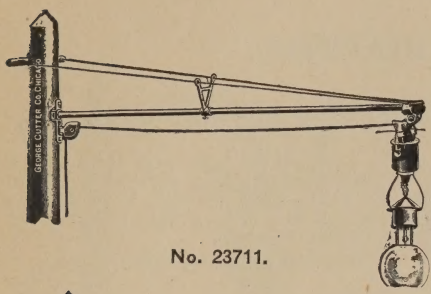
Fitted direct to the knob of a Cutter's Petite (lamp supporting) pulley, and furnished complete with crossarm and Cutter's streethood socket.

Zafim	17074	With Petite pulley and Edison socket.....	1.70
Zafin	17075	With Petite pulley, but without socket or nozzle	1.45
Zafip	17076	With Petite pulley and T-H socket.....	1.70
Zafir	17077	With Petite pulley and Westinghouse socket..	1.70
Zafis	17078	Cutter's Petite pulley alone, with knob.....	.50
Zafit	17079	Cutter's Midget pole pulley for use with swinging hoods.....	.30
Zafiv	17080	Cutter's Midget changeable pulley.....	.3F

No. 17080.



No. 17079.



No. 23711.

CUTTER SPECIALTIES.

CUTTER'S JUNIOR CUTOUT ARM.

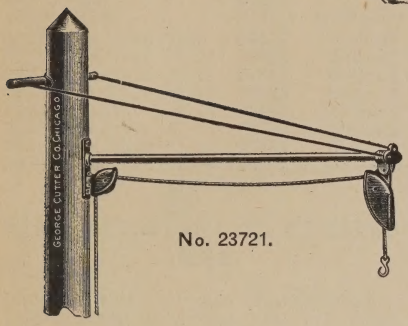
Junior Mast Arm, with Cutter's Cutout Pulley at the outer end.

With Double Braced Strain Arm.

Code Word.	List No.		List Price, Each.
Zacihab	23711	6 foot	$8.30
Zacihac	23712	8 foot	8.70
Zacihad	23713	10 foot	9.10
Zacihaf	23714	12 foot	9.50
Zacihag	23715	14 foot	9.90

With Extra Center Rod and Double Braced Strain Arm.

Zacihah	23716	14 foot	10.30
Zacihak	23717	15 foot	10.50
Zacihal	23718	16 foot	10.70
Zaciham	23719	18 foot	10.90
Zacihan	23720	20 foot	11.30



No. 23721.

CUTTER'S "CADET" MAST ARM.

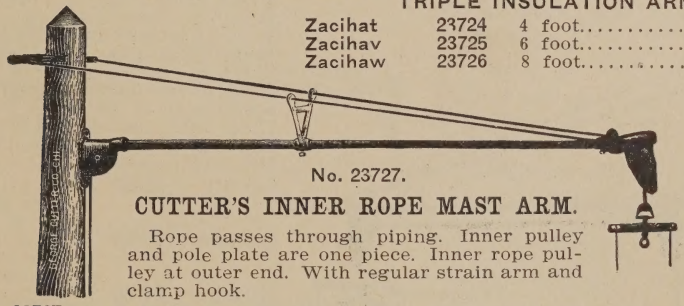
Similar to Cutter's "Junior" Mast Arm, but without the stiffening triangle.

Shipped complete with wrought iron strain arm, strain rods, weatherproof pole pulley and outer lamp-supporting pulley.

Zacihap	23721	4 foot	3.00
Zacihar	23722	6 foot	3.40
Zacihas	23723	8 foot	3.80

CUTTER'S CADET MAST ARM, WITH TRIPLE INSULATION ARM.

Zacihat	23724	4 foot	3.75
Zacihav	23725	6 foot	4.15
Zacihaw	23726	8 foot	4.55



No. 23727.

CUTTER'S INNER ROPE MAST ARM.

Rope passes through piping. Inner pulley and pole plate are one piece. Inner rope pulley at outer end. With regular strain arm and clamp hook.

Zacihax	23727	6 foot	3.90
Zacihay	23728	8 foot	4.30
Zacihaz	23729	10 foot	4.70
Zacihe	23730	12 foot	5.10
Zacihеb	23731	14 foot	5.50

Same with Double Braced Strain Arms.

Zacihec	23732	6 foot	4.30
Zacihed	23733	8 foot	4.70
Zacihef	23734	10 foot	5.10
Zacihеg	23735	12 foot	5.50
Zacihеh	23736	14 foot	5.90

Same with Double Braced Strain Arm and Extra Center Support.

Zacihek	23737	15 foot	6.50
Zacihel	23738	16 foot	6.70
Zacihem	23739	18 foot	7.20
Zacihen	23740	20 foot	7.70

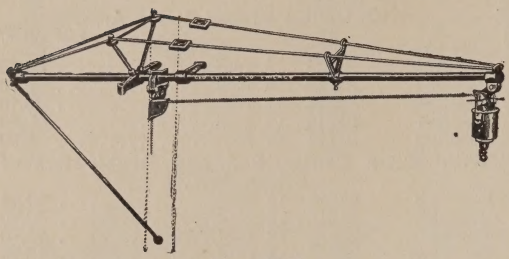
With Regular Strain Arm and Triple Insulation Arm.

Zacihep	23741	6 foot	4.85
Zacihеr	23742	8 foot	5.25
Zacihes	23743	10 foot	5.65
Zacihet	23744	12 foot	6.05

With Double Braced Strain Arm, Extra Center Rod and Triple Insulation Arm.

Zacihev	23745	14 foot overhang	7.05
Zacihew	23746	15 foot overhang	7.25
Zacihex	23747	16 foot overhang	7.45
Zacihey	23748	18 foot overhang	7.95
Zacihez	23749	20 foot overhang	8.45

CUTTER SPECIALTIES.



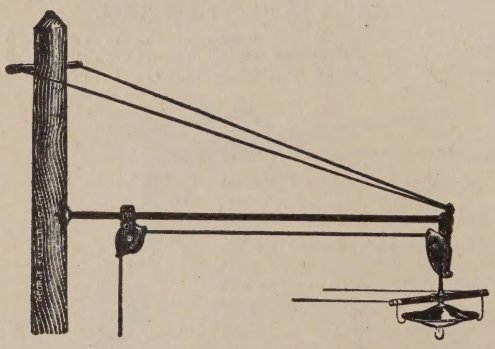
No. 23696.

CUTTER'S CUTOUT MAST ARM.

A wind braced mast-arm fitted with a Cutter Cutout Pulley so that the lamp can be lowered without lowering the wires. Makes a very neat construction and insures safety.

Furnished complete, except rope.

Code Word.	List No.		List Price, Each.
Zacihi	23696	8 ft. overhang.	$11.50
Zacihib	23697	10 ft. overhang.	12.00
Zacihic	23698	12 ft. overhang.	13.00
Zacihid	23699	14 ft. overhang.	13.50
Zacihif	23700	15 ft. overhang.	13.75
Zacihig	23701	16 ft. overhang.	14.00
Zacihih	23702	18 ft. overhang.	14.50
Zacihik	23703	20 ft. overhang.	15.00



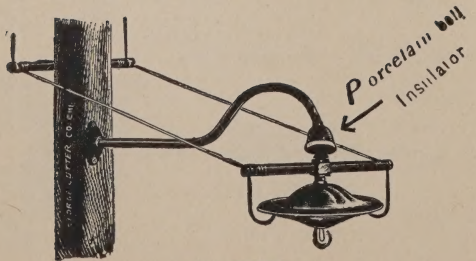
No. 23704.

CUTTER'S INCANDESCENT MAST ARM.

An unusually complete and practical mast arm for use with incandescent street lights. Has a curved pole plate, inner weatherproof pulley and outer Petite (lamp supporting) pulley. The hood, cross-arm and socket are the same as in Cutter's Standard Streethood, the cross-arm being bolted to the safety knob of the pulley. Shipped complete with pulleys, strain rods, iron strain arm, cross-arm, hood and porcelain shell socket.

Zacihil	23704	With 6 ft. overhang and Edison socket....	3.50
Zacihim	23705	With 8 ft. overhang and Edison socket....	3.75
Zacihin	23706	With 10 ft. overhang and Edison socket....	4.00

T-H or Westinghouse sockets furnished at same prices.



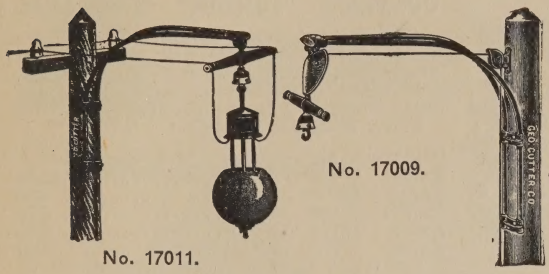
No. 23707.

CUTTER'S HIGH VOLTAGE STREET HOOD.

Similar to Cutter's Standard Streethood, but with a Cutter's High Voltage Insulator between the cross-arm and the supporting gooseneck. The only streethood giving a triple insulation between the socket and the brace arm.

Zacihip	23707	Complete, with brace arm, 3 ft. gooseneck, enameled cross-arm and T-H socket	2.35
Zacihir	23708	Same, with Edison socket.....	2.35
Zacihis	23709	Same, with Wghse socket..	2.35
Zacihit	23710	Same, without socket or nozzle	2.10

CUTTER SPECIALTIES.



No. 17009.

No. 17011.

CUTTER'S PULLEY POLE FIXTURE.

A neat poletop fixture that allows the lamp to be lowered for trimming. Complete with weatherproof pole pulley and outer Cutter's lamp-supporting pulley (3-foot reach).

Code Word.	List No.		List Price, Each.
Zacor	17009	.....	$3.00

Same, with high voltage cross-arm.

Zacos	17010	.....	3.70

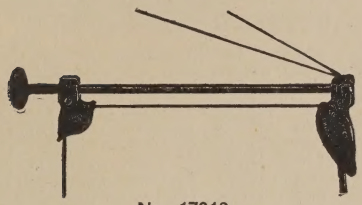
CUTTER'S POLE ARC FIXTURE.

The popular 2-foot pole fixture holds the lamp away from the pole so as to bring it out of the line of the shade trees. With high voltage cross-arm.

Zacot	17011	.....	2.60

With combination cross-arm (for low voltages).

Zacov	17012	.....	2.50



No. 17013.

CUTTER'S PULLEYED OUTRIGGER.

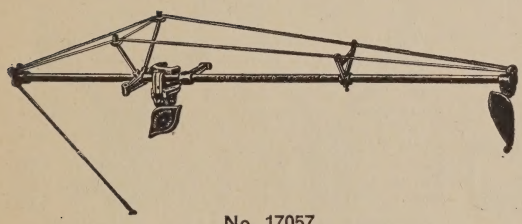
Six foot, complete with inner weatherproof and outer Cutter's Lamp-Supporting Pulley.

Zacow	17013	.....	1.50

Same, with high voltage cross-arm.

Zacox	17014	.....	2.20

(Other sizes furnished on short notice.)



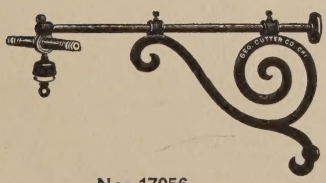
No. 17057.

CUTTER'S WIND-BRACED MAST-ARM.

Braced according to modern engineering principles and the only side mast-arm having braces to prevent the arm from rocking on the pole.

For triple insulation arm fitted to pulley knob, add 75 cents.

Zafah	17057	8 ft. overhang..	7.50
Zafak	17058	10 ft. overhang..	8.00
Zafal	17059	12 ft. overhang..	9.00
Zafam	17060	14 ft. overhang..	9.50
Zafan	17061	15 ft. overhang..	9.75
Zafap	17062	16 ft. overhang..	10.00
Zafar	17063	18 ft. overhang..	10.50
Zafas	17064	20 ft. overhang..	11.00



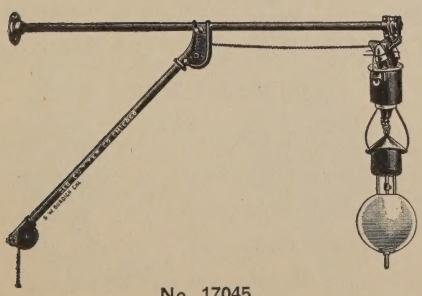
No. 17056.

CUTTER'S CAST SCROLL BRACKET.

A neat, but low priced ornamental bracket, with a high voltage cross-arm fitted to the outer end.

Zafag	17056	Complete, 3-foot.	1.80

(Other lengths furnished to order. For corner plates, add 20 cents to the above prices.)

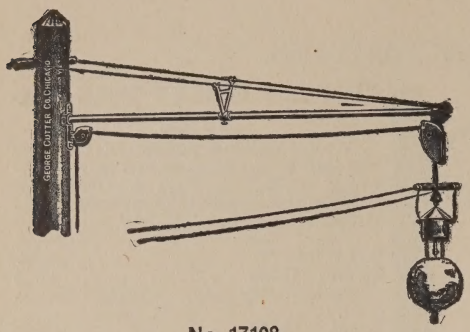


No. 17045.

CUTTER'S CUTOUT BRACKET.

Consists of the mammoth bracket, with Cutter's cutout pulley at the outer end, so that the lamp can be lowered without lowering the wires.

Zadar	17045	6 foot.....	7.10
Zadas	17046	3 foot.....	6.80



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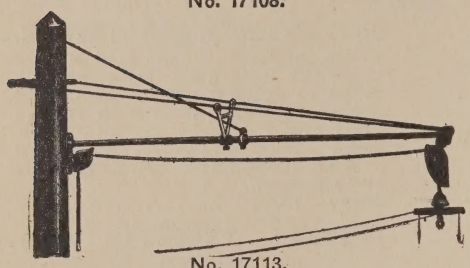

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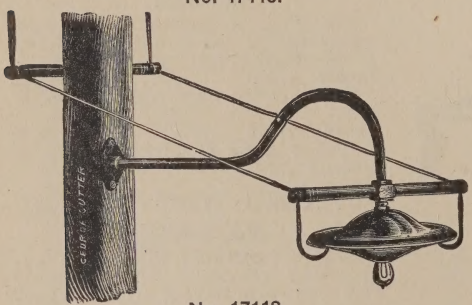

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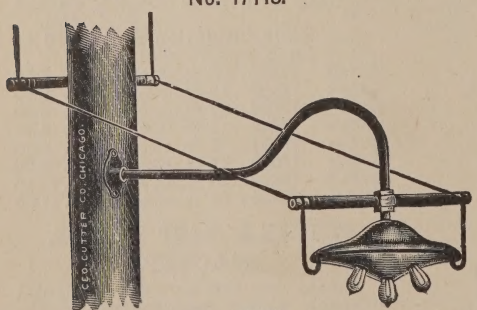

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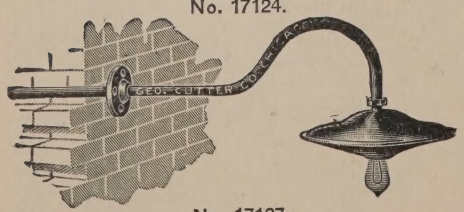


No. 17127.

CUTTER SPECIALTIES.

CUTTER'S "JUNIOR" MAST-ARM.

The most popular of low priced mast-arms. Shipped complete with wrought iron brace arm, strain rods, stiffening triangle, pole plate, weatherproof pole pulley and outer Cutter's lamp-supporting pulley.

Price, complete as above:

Code Word.	List No.		List Price, Each.
Zafat	17108	6 foot	$3.90
Zafav	17109	8 foot	4.30
Zafaw	17110	10 foot	4.70
Zafax	17111	12 foot	5.10
Zafaz	17112	14 foot	5.50

For triple insulation arm fitted direct to pulley knob, add 75 cents.

CUTTER'S "LONG JUNIOR" ARM.

Similar to the above, but with a side-braced strain arm and an extra support for the center of the pipe.

Zafe	17113	14 foot	6.10
Zafeb	17114	15 foot	6.30
Zafed	17115	16 foot	6.50
Zafef	17116	18 foot	7.00
Zafeg	17117	20 foot	7.50

For Cutter's triple insulation arm fitted direct to pulley knob, add 75 cents.

CUTTER'S STANDARD STREET-HOOD.

The only streethood made with enameled cross-arm, bolted fittings and porcelain shell socket. With brace-arm for back of pole, curved pole-plate, iron gooseneck, enameled cross-arm, waterproof hood, hinged reflector and porcelain shell T-H base socket.

Zafeh	17118	With T-H base socket.	1.85
Zafek	17119	With Edison socket...	1.85
Zafel	17120	With Wghse socket....	1.85

CUTTER'S STANDARD STREET-HOOD WITHOUT BRACE ARM.

Zafem	17121	But with T-H socket..	1.57
Zafen	17122	With Edison socket...	1.57
Zafep	17123	With Wghse socket...	1.57

CUTTER'S 3-LIGHT STANDARD STREETHOOD.

Has a special reflector and socket arrangement which makes it easily wired and quickly put up.

Zafer	17124	Complete, with Edison T-H or Wghse base porcelain shell sockets and brace-arm for back of pole.....	2.35
Zafes	17125	Same for 4 lights.....	2.60
Zafet	17126	Same for 5 lights.....	2.85

CUTTER'S WALL HOOD.

Has a pipe extending one foot inside of the flange, and holding the lamp three feet from the wall.

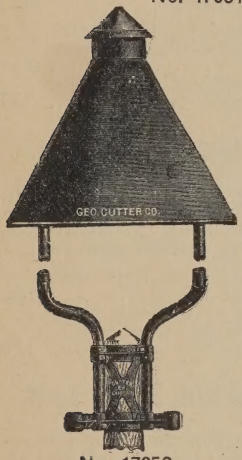
Zafev	17127	With porcelain shell Edison base socket..	1.55
Zafew	17128	Same, with T-H base socket	1.55
Zafex	17129	Same, without socket or nozzle.....	1.30

For longer forms, add 7c. per extra foot.

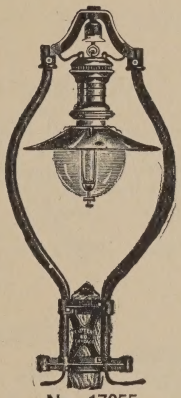
No. 17047.

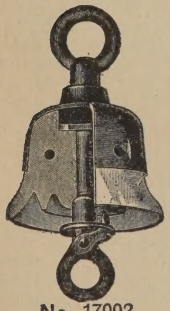
No. 17050.

No. 17051.



No. 17052.


No. 17055.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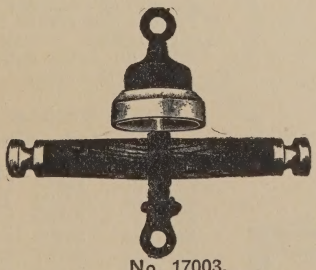

No. 17003.

No. 17004.

No. 17005.

CUTTER SPECIALTIES.

CUTTER'S ARC HOOD.

The only arc lamp hood with an enameled and metal bound "extra strong" cross-arm. Hood of galvanized iron, black outside.

Code Word.	List No.		List Price, Each.
Zadat	17047	With absolute cutout board	$3.00
Zadav	17048	With plain hanger board	2.40
Zadaw	17049	With simple insulating hook	2.00

CUTTER'S ABSOLUTE CUTOUT BOARD.

With spring contact hooks and extra well built switch.

Zadax 17050 ..... 1.20

CUTTER'S MIDGET ARC HOOD.

A small galvanized hood for enclosed arc lamps, with extra strong cross-arm and insulating hook.

Zadaz 17051 ..... 1.25

CUTTER'S SHADOWLESS POLETOP.

Has no base projecting on each side of the pole close to the lamp, so as to cast a deep shadow, and does not require the pole to be shaved down to fit it a certain size of tap.

Zafa	17052	Complete, with absolute cutout board	4.60
Zafab	17053	Same, with plain hanger board	4.00
Zafad	17054	Same, with simple insulating hook	3.60

CUTTER'S REFLECTOR POLETOP.

With extra wide spread of pipes, for use with lamps having reflectors over the globes. Casts no shadow, is easy to put up and has a Cutter high voltage insulator at the top.

Zafaf 17055 Complete 3.25

CUTTER'S HIGH VOLTAGE INSULATOR.

Has a double petticoat porcelain bell, which gives high insulation even in wet weather, and metal fittings which will not let the lamp drop, even if the porcelain should be broken. Complete with sister-hook.

Zacog 17002 ..... .50

CUTTER'S TRIPLE INSULATION ARM.

Has the high voltage insulator above the extra strong enameled arm, thus giving a triple insulation between the line wire and the supporting ring. A fine insulating arm for use with alternating series arc lamps. With sister-hook.

Zacoh 17003 ..... .75

CUTTER'S ROPE CLAMP.

Malleable iron (unbreakable) for ropes up to ⅝ inch.

Zacok 17004 ..... .10

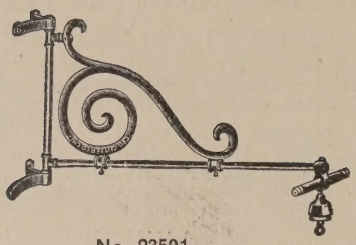
CUTTER'S POLE LOCK.

The only really weatherproof and unpickable lock made for the purpose.

Zacol 17005 ..... .40

One key free with every dozen locks. Extra keys 10c.

CUTTER SPECIALTIES.



No. 23591.

CUTTER'S "POWER - HOUSE" BRACKET.

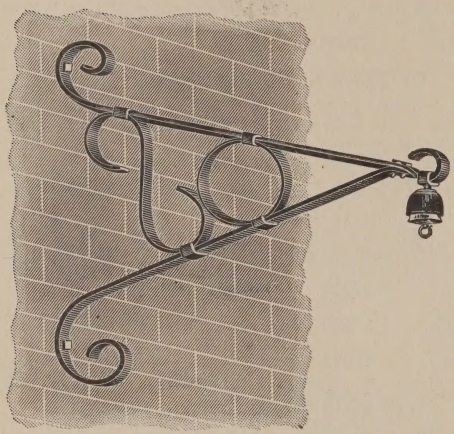
A swinging form of the "Station Bracket," 3-foot.

Code Word.	List No.		List Price, Each.
Zacigar	23591	Complete, with high voltage cross-arm..	$2.40

CUTTER'S "ANGLE CHANGE" BRACKET.

A bracket that can be put together to fit any kind of a job and ornamented to give many different appearances; is neat and very strong when fastened in place.

Zacigis	23592	Set complete, including high voltage insulator	2.00
Zacigit	23593	Corner plates, per pair extra	.30

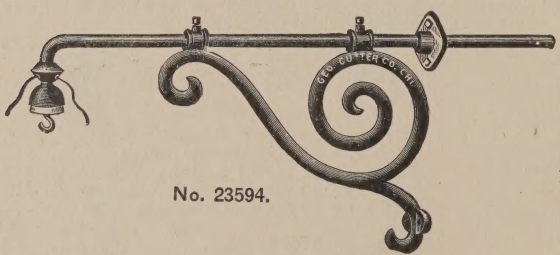


No. 23592.

CUTTER'S ARC OUTLET.

An ornamental bracket for supporting an arc lamp three feet from the wall. Has the pipe extending one foot inside the wall-plate, so that the wires can be brought through it.

Zacigiv	23594	As pictured (but without wires).....	1.80
Zacigiw	23595	Same, without inner piping, but with grooved wall-plate..	1.75



No. 23594.

CUTTER'S TOP MAST ARM.

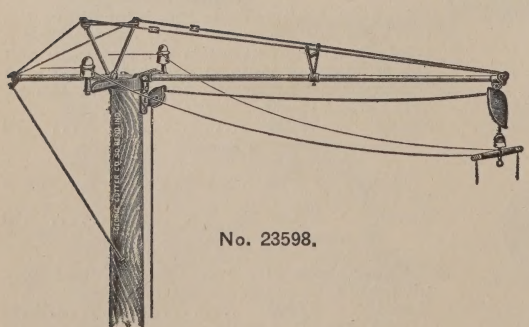
This has a cap that does not require the pole to be shaved and allows the mast arm to be swung to the desired position. Shipped complete with strain-rods, tail-rod, steadying braces, stiffening triangle, pulleys and straps for tightening the strain-rods. 15-foot or longer forms have an extra center rod for supporting the pipe.

WITH TRIPLE INSULATION ARM.

Zacigix	23596	8-foot	8.25
Zacigiy	23597	10-foot	8.75
Zagiciz	23598	12-foot	9.75
Zacigo	23599	14-foot	10.25
Zacigob	23600	15-foot	10.50
Zacigoc	23601	16-foot	10.75
Zacigod	23602	18-foot	11.25
Zacigof	23603	20-foot	11.75

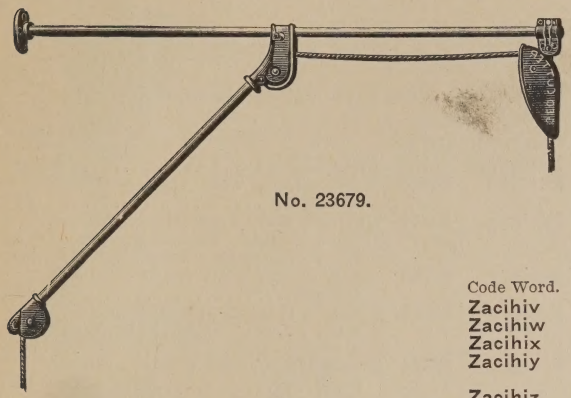
WITH CLAMP KNOB ONLY.

Zacigog	23604	8-foot	7.50
Zacigoh	23605	10-foot	8.00
Zacigok	23606	12-foot	9.00
Zacigol	23607	14-foot	9.50
Zacigom	23608	15-foot	9.75
Zacigon	23609	16-foot	10.00
Zacigop	23610	18-foot	10.50
Zacigor	23611	20-foot	11.00



No. 23598.

CUTTER SPECIALTIES.



No. 23679.

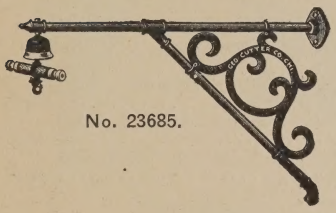
CUTTER'S "MAMMOTH" BRACKET.

A larger form of Cutter's Inner-Rope Bracket, with a horizontal pipe of 1¼ inch bore, and with Cutter's Mast-Arm Pulley at the outer end.

(The headpiece has strong ears for guy wires.)

Code Word.	List No.		List Price, Each.
Zacihiv	23679	8 ft. (without rope)	$3.20
Zacihiw	23680	10 ft. (without rope)	3.40
Zacihix	23681	12 ft. (without rope)	3.60
Zacihiy	23682	8 ft., with Jupiter cross-arm	4.20
Zacihiz	23683	10 ft., with Jupiter cross-arm	4.40
Zaciho	23684	12 ft., with Jupiter cross-arm	4.60

(In ordering state whether flat or curved flange is wanted.)



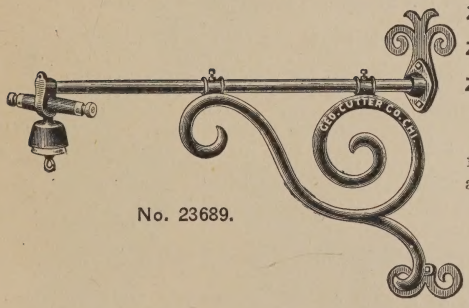
No. 23685.

CUTTER'S "LODGE" BRACKET.

An ornamental form of the Plain Arc Bracket, furnished with either flat wall-plate or curved pole-plate.

Zacihob	23685	2 ft., with flat wall-plate	2.10
Zacihoc	23686	6 ft., with flat wall-plate	2.30
Zacihod	23687	2 ft., with curved pole-plate	2.10
Zacihof	23688	6 ft., with curved pole-plate	2.30

(For other lengths, add 7 cents per extra foot. For corner-plates add 20 cents to the above prices.)



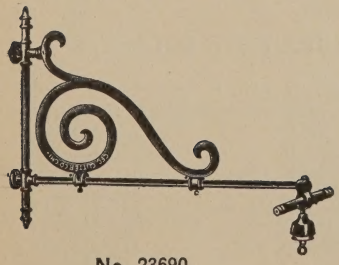
No. 23689.

CUTTER'S "MANSION" BRACKET.

A neat but low-priced ornamental bracket, with a high voltage cross arm at outer end and ornamental wall plates.

Zacihog	23689	3 ft.	2.30

(Larger sizes 7 cents per extra foot.)



No. 23690.

CUTTER'S STATION BRACKET.

Zacihoh	23690	3 ft., with high voltage cross-arm	2.00
Zacihok	23691	Same, 6 ft. (with chains for guying outer end)	3.00

CUTTER SPECIALTIES.

No. 23559.

No. 23561.

CUTTER'S LAMP SUPPORTING PULLEY.

With High Voltage Insulator.

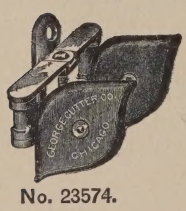
Code Word.	List No.		List Price, Each.
Zacigam	23559	Fitted direct to knob	$1.30
Zacigan	23560	Knob alone, with high voltage insulator	.65
Zacigap	23561	Cutter's lamp supporting pulley, with triple insulator arm, fitted direct to pulley knob	1.55
Zacigar	23562	Knob alone, with triple insulator arm	.90
Zacigas	23563	Cutter's lamp supporting pulley, with Jupiter cross arm, fitted direct to pulley knob	1.80
Zacigat	23564	Knob alone, with Jupiter cross arm	1.15

No. 23565.

CUTTER'S OUTRIGGER PULLEY.

Another form of the lamp supporting pulley with a clamp to fit the standard outrigger pipes ¾ inch bore.

Zacigav	23565	Outrigger pulley, complete, with clamp knob	.80
Zacigaw	23566	Same, with high voltage cross arm	1.50
Zacigax	23567	Same, with triple insulation arm	1.55

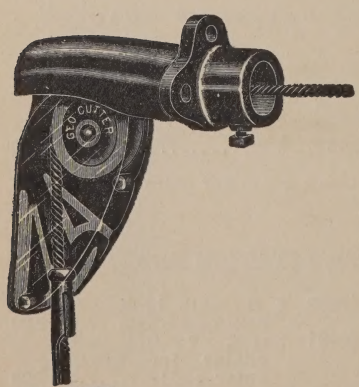


No. 23574.

CUTTER'S BIG PIPE OUTRIGGER PULLEY.

Similar to the above for larger sizes of pipe.

Zacigay	23568	For 1½ in. pipe, with clamp knob	.90
Zacigaz	23569	Same, for 1¼ in. pipe	.90
Zacige	23570	Same, for 1 in. pipe	.90
Zacigeb	23571	Same, for 1¼ in. pipe, with triple insulation arm	1.65
Zacigec	23572	Same, for 1½ in. pipe, with triple insulation arm	1.65
Zaciged	23573	Same, for 1 in. pipe, with triple insulation arm	1.65



No. 23575.

CUTTER'S DUPLEX POLE PULLEY.

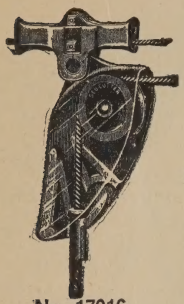
Consists of a pair of Cutter's Swivel Pole Pulleys fastened to a single malleable iron poleplate.

Zacigef	23574		.80

CUTTER'S INNER ROPE PULLEY.

A lamp supporting pulley with a hooded end clamp for use with mast arms in which the rope runs through the iron pipe.

Zacigeg	23575	Complete, with clamp knob for 1¼ in. pipe	1.00
Zacigeh	23576	Same, for 1½ in. pipe	1.00
Zacigek	23577	For 1¼ in. pipe, with triple insulation arm	1.75



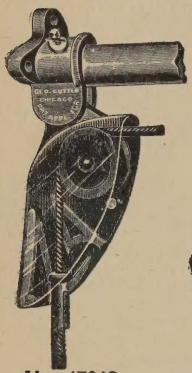
No. 17016.

CUTTER SPECIALTIES.

CUTTER'S LAMP-SUPPORTING PULLEY.

Holds the lamp when raised and releases it when it is about to be lowered. Has a long swivel clamp to fit any size suspension wire or cable and a malleable clamp knob to hold the lamp. On raising the lamp this knob is engaged by ridges on the sides of the pulley and takes all strain off the rope. Another pull at the rope guides the knob out so that lamp can readily be lowered. The action is entirely automatic; you pull the rope till it reaches a dead stop and the pulley does the rest.

Code Word.	List No.		List Price, Each.
Zacu	17016	Complete with clamp knob	$0.80
Zacub	17017	Extra clamp knob	.15



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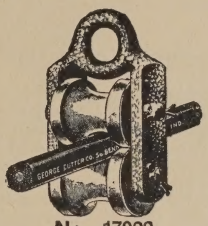


No. 17022.

CUTTER'S MAST-ARM PULLEY.

Same as the lamp-supporting pulley, but with an end clamp for iron pipes.

Zacud	17018	Cutter's Mast-Arm Pulley for 1¼-inch (bore) iron pipe, with clamp knob	.90
Zacuf	17019	Same for 1½-inch (bore) pipe	.90
Zacug	17020	Cutter's Mast-Arm Pulley for 1¼-inch pipe, with Triple Insulation Arm	1.65
Zacuh	17021	Same for 1½-inch (bore) pipe	1.65

CUTTER'S SWINGING INSULATOR.

"The Ideal tree insulator."

Zacuk	17022	Per dozen	2.00

CUTTER'S SWIVEL POLE PULLEY.

Weatherproof, and the only pole pulley made with an unbreakable pole plate.

Zacul	17023		.40

CUTTER'S JUMBO POLE PULLEY.

Similar to above, for ¾-inch rope.

Zacum	17024		.60

No. 17025.

CUTTER'S INTERCHANGEABLE PULLEY.

An all-round pulley that serves either as a suspension pulley or as a pole pulley.

Zacun	17025		.40

CUTTER'S JUMBO CHANGEABLE PULLEY.

Similar to above, for ¾-inch rope.

Zacup	17026		.60

No. 17027.

No. 17029.

CUTTER'S CEILING PULLEY.

For use on bridges, or under beams in shops and yards, etc. With lamp-supporting clamp-knob.

Zacur	17027		.90
Zacus	17028	Same with triple insulation arm	1.65

CUTTER'S PLAIN ROOF PULLEY.

Companion to the above.

Zacut	17029		.50

CUTTER'S PLAIN END PULLEY.

A weatherproof pulley with a headpiece to fit into mast-arm pipes.

Zacuv	17030	For 1¼-inch (bore) pipe	.50
Zacuw	17031	For 1½-inch (bore) pipe	.50

No. 17030.

No. 17032.

CUTTER'S SLEEVE PULLEY.

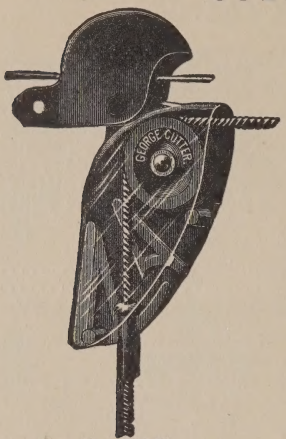
A weatherproof pulley with a clamp to grip ¾-inch (bore) pipe.

Zacux	17032		.50

CUTTER'S BIG PIPE SLEEVE PULLEY.

Zacuz	17033	For 1½-inch (bore) pipe	.50
Zada	17034	For 1¼-inch (bore) pipe	.50

CUTTER SPECIALTIES.

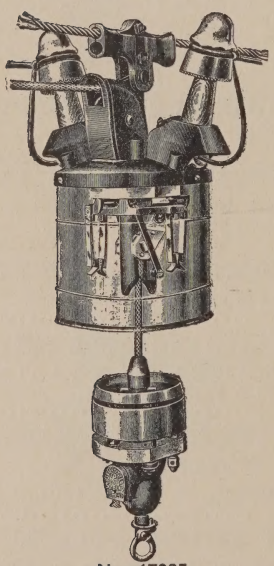


No. 23623.

CUTTER'S RUNNING PULLEY.

With this pulley the lamp may be suspended over the middle of the street and brought to the pole to be lowered for trimming. Works automatically and is reliable.

Code Word.	List No.		List Price, Each.
Zacikax	23623	Complete, with clamp knob and clamp stop	$1.20
Zacikay	23624	Same, with triple ins. arm fitted to knob	1.95
Zacikaz	23625	With clamp knob, clamp stop and pair of swivel pole pulleys	2.00
Zacike	23626	Same, with triple insulation arm	2.75
Zacikeb	23627	Cutter's running pulley, with midget changeable pulley and duplex pole pulley	2.35
Zacikec	23628	Same, with triple insulation arm	3.10



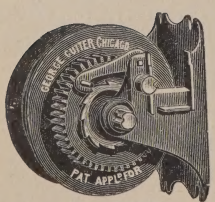
No. 17035.

CUTTER'S CUTOUT PULLEY.

A pulley which not only holds the lamp securely when raised, but also shunts the circuit before the lamp is lowered, switching the lamp into the circuit again when raised to its normal position.

With this pulley the wires are never lowered, hence they can be run taut (making neater construction) while the lamp can be lowered straight down between trolley wires or other obstacles. lamps can be trimmed, adjusted or even replaced with safety on the live circuits, thus reducing the deductions for outages of street lamps.

Zadab	17035	Complete (except rope and wire)	5.00
Zadad	17036	With end clamp for 1¼-in. (bore) iron pipe	5.00
Zadaf	17037	With end clamp for 1½-in. (bore) iron pipe	5.00
Zadag	17038	With sleeve clamp for 1¼-in. (bore) iron pipe	5.00
Zadah	17039	With sleeve clamp for 1½-in. (bore) iron pipe	5.00
Zadak	17040	With sleeve clamp for 1-in. (bore) iron pipe	5.00
Zadal	17041	With sleeve clamp for ¾-in. (bore) iron pipe	5.00
Zadam	17042	With ceiling plate (for beams or girders)	5.00



No. 17006.

No. 17007.

CUTTER'S COMBINATION WINDLASS.

A geared and locking windlass that can also be used as a plain windlass for quick lowering. Takes fifty feet of wire rope or forty feet of ⅜-inch braided rope.

Zacom	17006	Combination windlass	2.25
Zacon	17007	Pinion handle	.90

CUTTER'S WALL WINDLASS.

Similar to the above, but with lugs for attaching to walls, square or hexagonal poles, or other flat surfaces.

Zacoz	17015		2.45

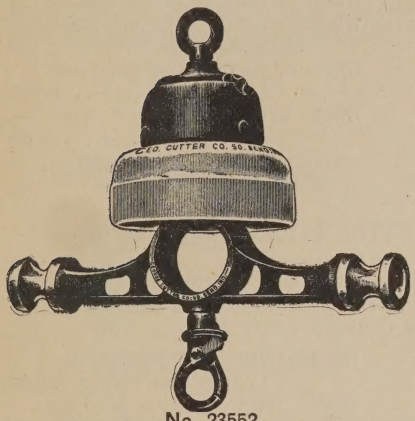
No. 17008.

CUTTER'S BANNER CORE ROPE.

A fine braided cotton rope with a weatherproof finish which keeps out the rain and makes it extra durable. We recommend the ⅜ and ½-inch sizes for hoisting arc lamps, the ¼ and 5-16 inch for incandescent suspensions. Sizes in stock.

Zacop	17008	Any size, per pound	.32

No. 23550.



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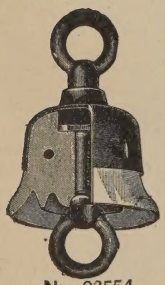
No. 23553.



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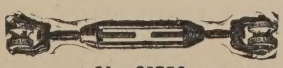
No. 23555.



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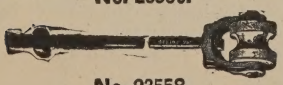


No. 23558.

CUTTER SPECIALTIES.

CUTTER'S TAIL PULLEY.

A weatherproof pulley for use with inner rope mast arms.

Code Word.	List No.		List Price, Each.
Zaciga	23550	For 1¼ in. iron pipe.....	$0.50
Zacigab	23551	Same for 1½ in. iron pipe.	.50

CUTTER'S "AJAX" CROSS ARM.

An insulating cross arm having both the wire supports and the lamp hook insulated from the support by Cutter's Jupiter Insulator. The cross arm is of iron fitted with a locking sister hook.

Zacigac 23552 Complete 1.00

CUTTER'S GROVE INSULATOR.

Combines the high voltage insulator with a loop break for the line wires, giving high insulation for both the lamp frame and the line wires. Specially adapted for use in summer gardens, exposition buildings, train sheds and wherever lamps are looped into series circuits.

Zacigad 23553 Complete ..... .70

CUTTER'S HIGH VOLTAGE ROPE INSULATOR.

A high voltage insulator with an eye above and below for looping into wire hoisting ropes. (We advise all users of wire hoisting ropes to ground the lower end of the rope so as to positively prevent accidents to anyone touching the rope. Then the insertion of Cutter's High Voltage Rope Insulator higher up on the rope will avoid leakage.)

Zacigaf	23554	Complete	.45
Zacigag	23555	Same with clamp for wire rope	.55

CUTTER'S INSULATED TURN BUCKLE.

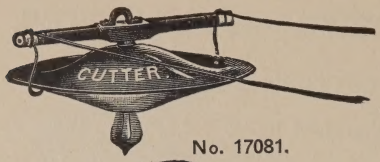
Has heavy porcelain insulators, held in wrought iron forks. The turnbuckle has nine inches adjustment, and the porcelain give a double insulation.

Zacigah	23556	Complete	.70
Zacigak	23557	Galvanized	.80

CUTTER'S INSULATED SUSPENSION BOLT.

Insulates the suspension wire or cable from the pole so as to reduce the risk of grounds and accidents. Can also be used with guard wires for railway suspension. Fork is of wrought iron and bolt has six inches of thread.

Zacigal 23558 12 in. bolt, nut and washer .18



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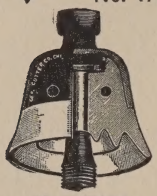

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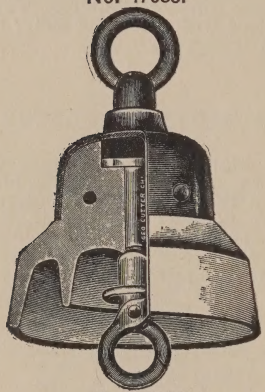

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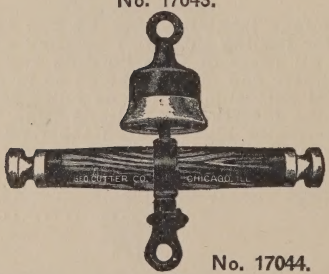

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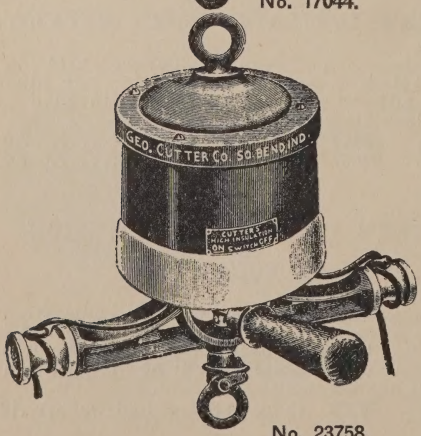


No. 23758.

CUTTER SPECIALTIES.

CUTTER'S LOOPED HOOD.

A simple suspension hood with enamelled cross-arm and porcelain shell socket.

Code Word.	List No.		List Price, Each.
Zafiw	17081	With T-H base socket.	$1.20
Zafix	17082	With Edison base socket	1.20
Zafiz	17083	With Westinghouse base socket	1.20
Zafo	17084	Without socket or nozzle	.95

CUTTER'S HOOD INSULATOR.

Easily inserted between the gooseneck and the cross-arm on bracket streethoods to adapt them for the higher voltages.

Zafob	17085	With fittings for ½-inch (bore) pipe	.50
Zafod	17086	With fittings for ¾-inch (bore) pipe	.50

CUTTER'S "JUPITER" INSULATOR.

Built on the same general lines as Cutter's High Voltage Insulator, but with a greatly enlarged series of Petticoats to give higher surface insulation. Therefore has the same high break-down insulation (ample for 12,000 volt circuits), and an extra large surface to reduce the leakage in wet weather.

Zaban	17043		.75

CUTTER'S "JUPITER" CROSS-ARM.

"The Ideal Insulating Arm for use on high voltage circuits."

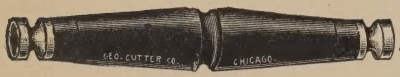
Zadap	17044	Complete	1.00

CUTTER'S HIGH INSULATION SWITCH.

An absolute cutout switch for series arc lamps substantially built, with switch hermetically sealed in. The line wire supports are well insulated without an extra insulator above.

Zacigul	23758	Complete	3.00

No. 23750.



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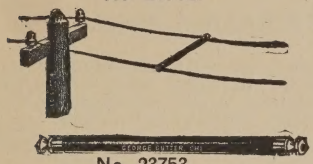

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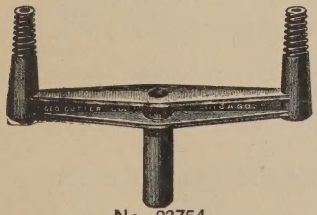

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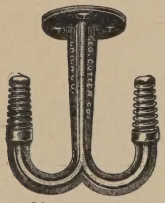

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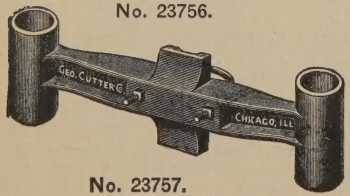


No. 23757.

CUTTER SPECIALTIES.

CUTTER'S ECONOMY ARM.

A common sense arm for use where the insulation is not important. Made of enameled wood with metal bound ends and sister hook.

Code Word.	List No.		List Price, Each.
Zacigus	23750	Complete	$0.25

CUTTER'S PLAIN ARM.

Enameled wood with metal bound ends and porcelain knobs.

Zacigut	23751		.15

CUTTER'S GRIP ARM.

Consists of a plain arm with a U-bolt for clamping the same to 1¼ inch pipe as is used on mast arms.

Zaciguv	23752		.20

CUTTER'S FEATHERWEIGHT SPREADER.

Is readily fastened to the wires running to suspension lamps, so as to keep them 18 inches apart. Made of enameled wood, metal tipped, with porcelain insulators. Weight less than 8 ounces.

Zaciguw	23753		.12½

CUTTER'S FIXED PIN BREAK ARM.

Zacigux	23754	Cast iron, with 12 inch spread between pins.....	.30

CUTTER'S PINLESS BREAK ARM.

Zaciguy	23755	Cast iron, with 1½ inch sockets 12 inches apart..	.30

CUTTER'S DOUBLE CEILING BRACKET.

Zaciguz	23756	For bridges, mines, etc., cast iron.....	.24

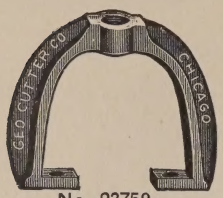
CUTTER'S CLAMP ARM.

A light-weight, pinless break-arm for use with Cutter's Park Crook, or other posts, made of 2½ inch (bore) piping.

Zaciha	23757	With U-bolt for 2½ inch pipe	.40

(Also furnished at the same price for 1¼, 1½ or 2 inch bore piping.)

CUTTER SPECIALTIES.



No. 23759.

CUTTER'S HOOD FORK.

Fits the General Electric No. 25713 Porcelain Receptacle, allowing this and the No. 25711 Porcelain Series Socket to be used with any form of Cutter's Streethoods.

Code Word.	List No.		List Price, Each.
Zacigos	23759	.....	$0.10

No. 23760.

CUTTER'S CEILING HOOK.

A very popular insulator for indoor arc lamps and fan motors. Is compact, strongly made of malleable iron and porcelain, and gives good insulation.

Zacigot	23760	.....	.25

No. 23762.

CUTTER'S SPREADER HOOK.

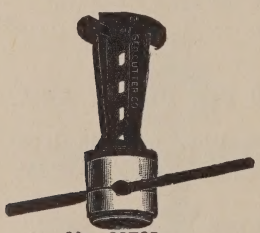
A compact ceiling insulator with self-binding knobs for guiding the line wires. Strongly made of malleable iron, with porcelain insulation. A common-sense and low-priced hanger for indoor arc lamps or fan motors.

Zacigov	23762	.....	.35

CUTTER'S CEILING PENDANT.

Holds the wire four inches from the ceiling, or far enough to prevent the unsightly blackening.

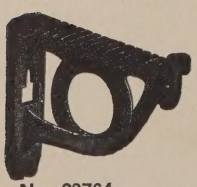
Zacigow	23763	With self-binding knob.....	.12


No. 23763.

CUTTER'S ORNAMENTAL POLESTEP.

Fits either round or octagonal poles and looks much neater than the ordinary polestep. Is easily fastened in place by using a single lag screw and a nail.

Zacigox	23764	.....	.08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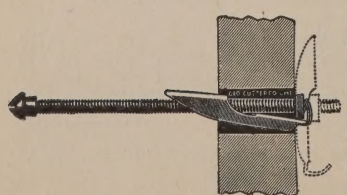
CUTTER'S TOGGLES.

The handiest kind of fastening for moulding, brackets or any fixtures to walls or ceilings in which screws will not hold, such as tile, marble or metal. Can be used with the nut and thread outside, or with the nut inside and the slatted head exposed. It is easy to use. Simply drill or chip a hole, ½ inch is large enough for 3-16 inch size, and it will hold firmly in a hole ¾ inch or even 1 inch in diameter. Insert toggle as per cut until the loose bar drops, then draw up and turn bolt (or nut) until work is made fast.



			Pkg. of 10.....	Box of 25.....	Box of 100.....	1000 or more.....
Zacigoy	23765	Regular, 3-16x3..	$0.22	$0.50	$1.80	$17.00
Zacigoz	23766	Regular, 3-16x4..	.25	.55	2.00	18.00
Zacigu	23767	Regular, 3-16x6..	.30	.70	2.50	22.50
Zacigub	23768	Slender, ⅛x3....	.20	.45	1.70	16.00
Zacigue	23769	Slender, ⅛x4....	.25	.50	1.90	17.50
Zacigud	23770	Slender, ⅛x6....	.30	.65	2.20	20.00
Zacigue	23771	Quarter in., ¼x4.	.28	.60	2.20	20.00
Zacigug	23772	Quarter in., ¼x6.	.30	.70	2.60	24.00
Zacigub	23773	Jumbo, 5-16x4...	.35	.80	3.00	27.50
Zacigue	23774	Jumbo, 5-16x6...	.40	.95	3.50	32.50

CUTTER SPECIALTIES.

No. 23578.

CUTTER'S "EBONY" WIRE ROPE.

A wire rope made up of six flexible strands, each with a soft center, around a flexible (black) center. The only wire rope really pliable enough to work freely with standard types of pulleys.

Code Word.	List No.		List Price, Each.
Zacigel	23578	Per foot	$0.03

No. 23579.

CUTTER'S TRIMMER'S ROPE.

A thirty foot hoisting rope with a snap hook at one end and six clamp rings near the other end. These rings can readily be clamped at any desired intervals to accommodate lamps hung at different heights. For use with Cutter's rope clamp and pole lock.

Zacigem	23579	Each	1.25

CUTTER'S ROPE CLEAT.

No. 23580.

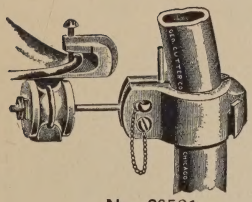
A strong, neat, malleable iron, nicely tinned cleat, with edges rounded so as not to cut the rope.

Zacigen	23580	Each	.15

CUTTER'S INSULATED REFLECTOR CLAMPS.

For use with poletops to keep the lamps from swinging. Readily unhooked so as not to interfere with the trimming.

Zacigep	23581	Per pair	.40



No. 23581.

CUTTER'S MAROON PAINT.

A dark maroon weatherproof paint for streethood tops. (Darker in color than that on Cutter's hoods as it has to dry in the air.) Takes a gallon for every 80 hood tops.

Zaciger	23582	Gallon can	1.25
Zaciges	23583	Two gallon can	2.40
Zaciget	23584	Five gallon can	5.50

CUTTER'S REFLECTOR ENAMEL.

No. 23582.

An extra fine air-drying enamel for streethood reflectors or tin shades. Not needed with Cutter's porcelained reflectors, but fine for all others. Takes a gallon for every 80 reflectors.

Zacigev	23585	Gallon can	3.00
Zacigew	23586	Half gallon	1.60
Zacigex	23587	Quart can	.90

CUTTER'S PIPE PAINT.

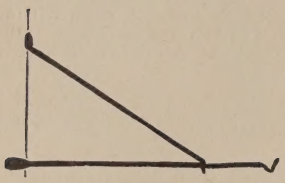
A glossy black paint for streethood goosenecks, mast-arm pipes, arc hoods and other metal work.

Zacigey	23588	Five gallon can	5.50
Zacigez	23589	Two gallon can	2.40
Zacigi	23590	Gallon can	1.25

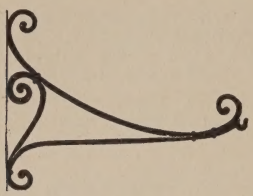
MARTEN SPECIALTIES.

ARC LAMP HOOKS.

WROUGHT IRON BLACK ENAMEL.



No. 6183.



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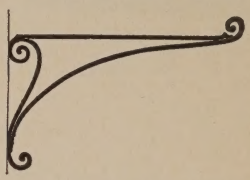

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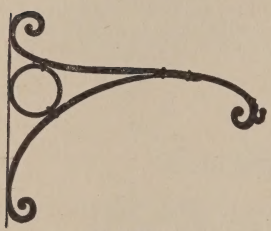

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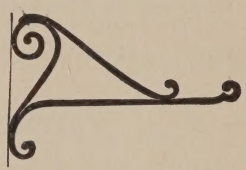

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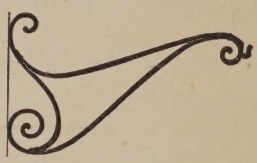
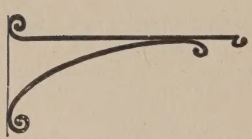
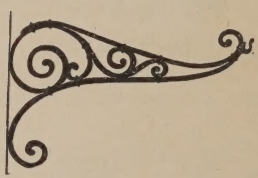


No. 7925.



No. 7920.

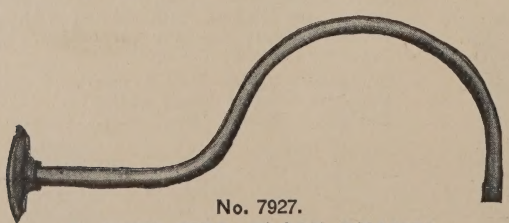
No. 7923.



No. 7926.

Code Word.	List No.	Mfr. No.		List Price Each.
Avoid	6183	76	3 feet long	$2.00
Avow	6184	77	3 feet long	4.00
Await	7920	78	3 feet long	2.25
Awake	7921	79	3 feet long	4.00
Award	7922	80	3 feet long	4.00
Aware	7923	81	3 feet long	7.50
Away	7924	82	3 feet long	4.00
Awe	7925	83	3 feet long	4.00
Awful	7926	84	3 feet long	7.50

GOOSENECK BRACKETS AND FLANGES.



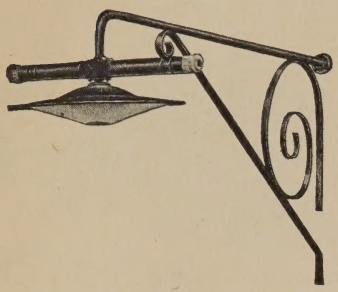
No. 7927.

¾ INCH PIPE, BLACK ENAMEL.

Awkward	7927	7	3 ft. long with No. 1 Oval Flange	1.00
Awning	1673	8	4 ft. long with No. 1 Oval Flange	1.50
Awry	1674	9	5 ft. long with No. 1 Oval Flange	2.00

MARTEN SPECIALTIES.

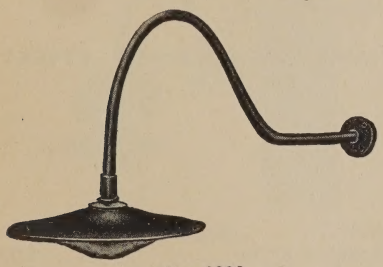
INCANDESCENT STREET FIXTURES.



No. 9088.

THE PARKWAY INCANDESCENT STREET FIXTURE.

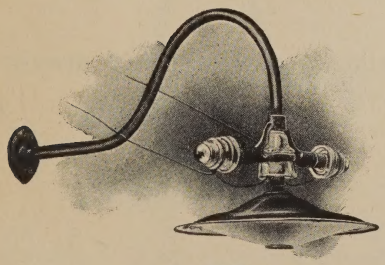
Code Word.	List No.	Mfr. No.		List Price Each.
Fear	9088	341	Complete with Edison Socket	$5.60
Feasible	9089	3341	Complete with Thomson-Houston Socket	5.60



No. 9090.

THE COMPETITION INCANDESCENT STREET FIXTURE.

Feast	9090	161	Complete with Edison Socket	1.75
Feat	9091	1161	Complete with Thomson-Houston Socket	1.75

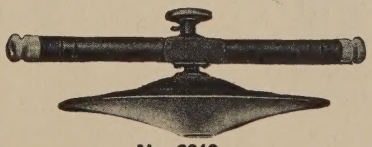


No. 9092.

THE JERSEY INCANDESCENT STREET FIXTURE.

Feather	9092	111	Complete with Edison Socket	4.50
Feature	2245	1111	Complete with Thomson-Houston Socket	4.50

ARCHWAY INCANDESCENT FIXTURE.

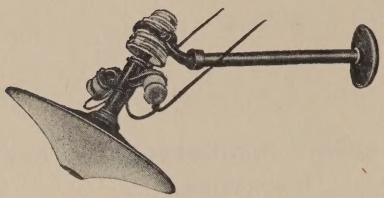


No. 2246.

Fease	2246	441	Complete with Edison Socket	2.00
Febrile	2247	4441	Complete with Thomson-Houston Socket	2.00

MARTEN SPECIALTIES.

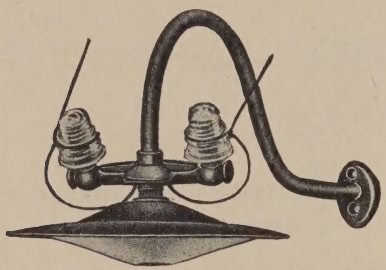
INCANDESCENT STREET FIXTURES.



THE TREMONT INCANDESCENT STREET FIXTURE.

No. 2248.

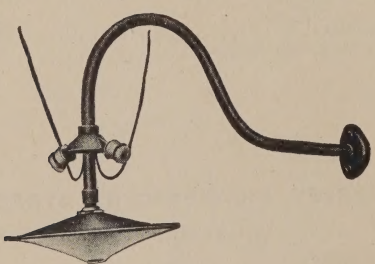
Code Word.	List No.	Mfr. No.		List Price Each.
Ososo	2248	231	Complete with Edison Socket	$4.00
Osphagus	2249	2231	Complete with Thomson-Houston Socket	4.00



THE THOMAS INCANDESCENT STREET FIXTURE.

No. 9093.

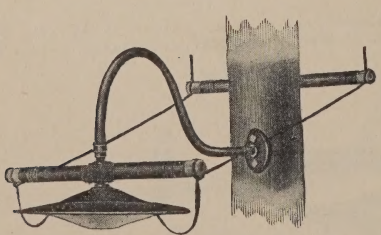
Ossilapata	9093	241	Complete with Edison Socket	3.00
Fob	9094	2241	Complete with Thomson-Houston Socket	3.00



THE SUBURBAN INCANDESCENT STREET FIXTURE.

No. 9095.

Focal	9095	131	Complete with Edison Socket	3.50
Osphyalgie	2253	1131	Complete with Thomson-Houston Socket	3.50



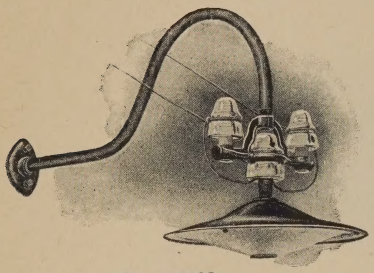
THE MURRAY INCANDESCENT STREET FIXTURE.

No. 9096.

Fay	9096	141	Complete with Edison Socket	3.25
Feality	9097	1141	Complete with Thomson-Houston Socket	3.25

MARTEN SPECIALTIES.

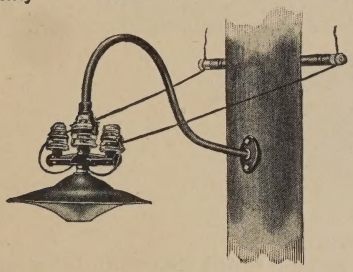
INCANDESCENT STREET FIXTURES.



No. 35288.

THE CLINTON INCANDESCENT STREET FIXTURE.

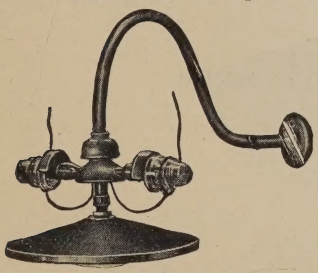
Code Word.	List No.	Mfr. No.		List Price Each.
Osmious	35288	211	Complete with Edison Socket	$4.50
Flunky	35289	2211	Complete with Thomson-Houston Socket	4.50



No. 35290.

THE PROSPECT INCANDESCENT STREET FIXTURE.

Osmite	35290	411	Complete with Edison Socket	4.60
Flush	35291	4411	Complete with Thomson-Houston Socket	4.60



No. 35292.

THE MARTEN INCANDESCENT STREET FIXTURE.

Osmotic	35292	121	Complete with Edison Socket	5.60
Flustrate	35293	1121	Complete with Thomson-Houston Socket	5.60

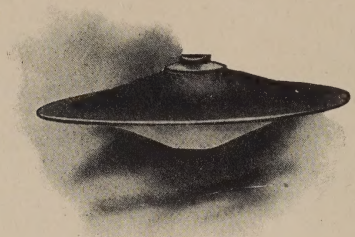
No. 35294.

THE FAIRMOUNT INCANDESCENT STREET FIXTURE.

Flute	35294	221	Complete with Edison Socket	5.25
Ososas	35295	2221	Complete with Thomson-Houston Socket	5.25

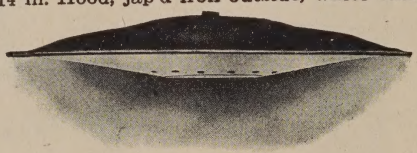
MARTEN SPECIALTIES.

INCANDESCENT HOODS.



No. 35296.
COMPETITION HOOD.

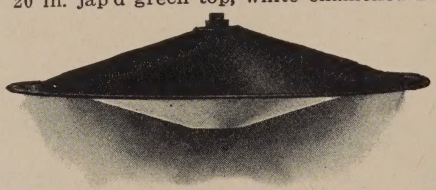
Code Word.	List No.	Mfr. No.		List Price Each.
Austral	35296	61	12 in. Hood, jap'd iron outside, white enamelled Deflector..	$ .75
Authentic	35297	71	14 in. Hood, jap'd iron outside, white enamelled Deflector..	1.00



No. 35298.
THE TIDMAN HOOD.

Is made with screw thread to take glass globe, specially suited for export, being solid, with no loose parts to become separated.

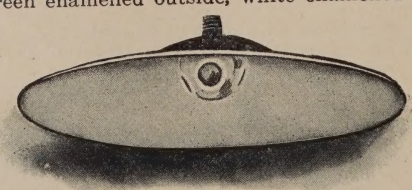
Author	35298	75	16 in. jap'd green top, white enamelled Deflector.....	1.75
Authority	35299	85	18 in. jap'd green top, white enamelled Deflector.....	2.50
Authorize	35300	95	20 in. jap'd green top, white enamelled Deflector.....	2.75



No. 35301.
THE COLUMBIAN HOOD.

18 inches in Diameter.

Autocrat	35301	65	Green enamelled outside, white enamelled Deflector.....	1.75



No. 35304.
CLUSTER HOOD.

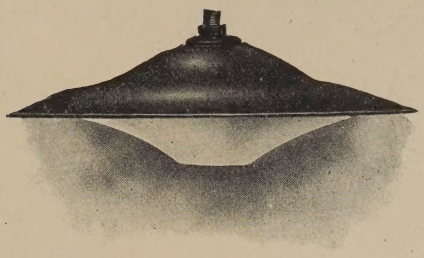
17 inches in Diameter. Black Enamel Outside, White Inside.

Autograph	35302	2	Light.....	2.75
Automatic	35303	3	Light.....	3.00
Automaton	35304	4	Light.....	3.25
Autopsy	9086	5	Light.....	3.75
Autumn	9087	6	Light.....	4.25

Edison base multiple clusters sent when style cluster is not specified.

MARTEN SPECIALTIES.

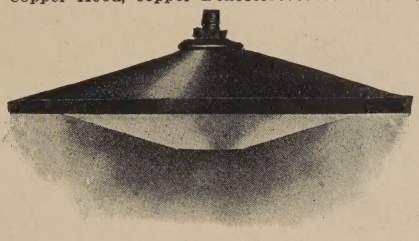
INCANDESCENT HOODS.



No. 4591.

THE JERSEY HOOD—17 Inches in Diameter.

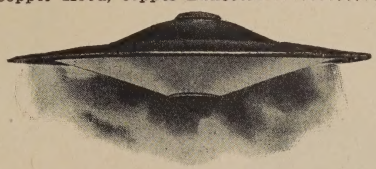
Code Word.	List No.	Mfr. No.		List Price Each.
Autumnal	4591	11	Black enamelled Hood, white enamelled Deflector	$2.25
Auxiliary	4592	12	Black enamelled Hood, genuine porcelain enamelled Deflector	3.00
Avail	4593	13	Galv. and alum. coated Hood, white enamelled Deflector	2.75
Avalanche	4594	14	Aluminum Hood, aluminum Deflector	3.50
Avarice	4595	15	Copper Hood, copper Deflector	3.50



No. 4596.

THE MARTEN HOOD—16 Inches in Diameter.

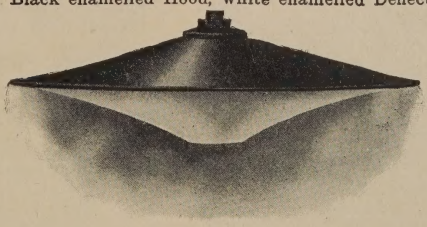
Avaricious	4596	21	Black enamelled Hood, white enamelled Deflector	2.25
Avaunt	4597	22	Black enamelled Hood, genuine porcelain enamelled Deflector	3.00
Avenge	4598	23	Galv. and alum. coated Hood, white enamelled Deflector	2.75
Avenue	4599	24	Aluminum Hood, aluminum Deflector	3.50
Aver	4600	25	Copper Hood, copper Deflector	3.50



No. 4601.

THE MURRAY HOOD—17 Inches in Diameter.

Average	4601	41	Black enamelled Hood, white enamelled Deflector	1.50

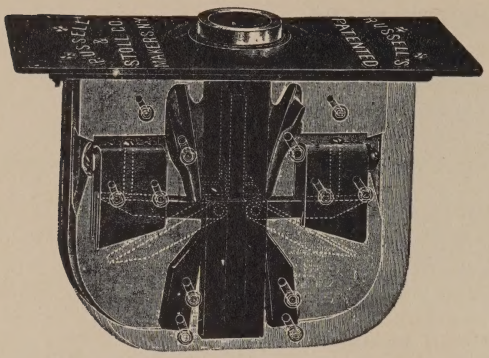


No. 4602.

THE SUBURBAN HOOD—14 Inches in Diameter.

Averse	4602	31	Black enamelled Hood, white enamelled Deflector	1.50
Avert	4603	32	Black enamelled Hood, genuine porcelain enamelled Deflector	2.25
Aviary	9397	33	Galv. and alum. coated Hood, white enamelled Deflector	1.25
Avidity	8388	34	Aluminum Hood, aluminum Deflector	2.75
Avocation	8389	35	Copper Hood, copper Deflector	2.75

FLOOR RECEPTACLES.



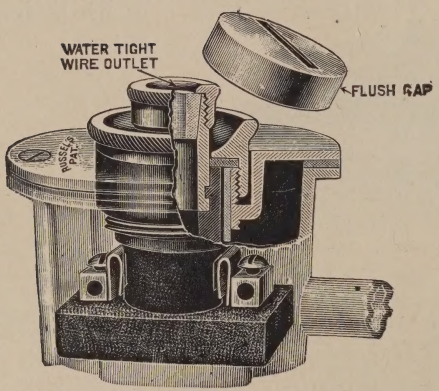
QUICK BREAK STAGE POCKET AND PLUG.

25 Amperes.

Heavy Porcelain Body.

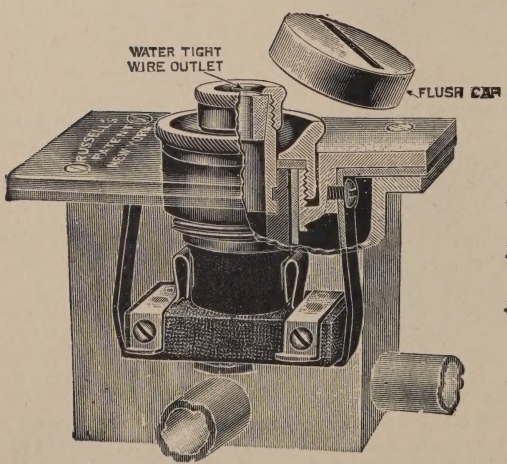
Absolutely proof against trouble from foreign matter getting into plug hole, as live terminals are well away from the throat. Plug contacts reach out to the pocket terminals.

Code Word.	List No.		List Price Each.
Zacawuw	16968	Complete.....	$14.00



WATERPROOF FLOOR RECEPTACLE AND PLUG.

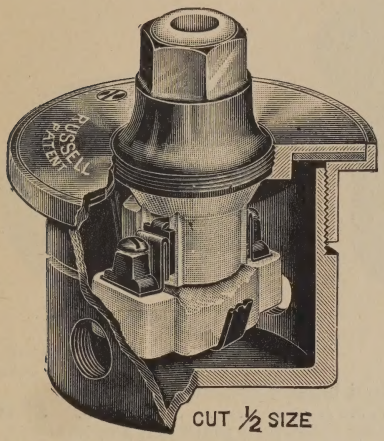
Cut half size; 10 amp. Mechanically and electrically good. Plug is securely held and takes all the stress of the cable.



Stand pipe readily attached to plug. Plug and box easy to instal. Plug goes in only one way, maintaining polarity.

Zacawux	16969	Small round box, complete	5.00
Zacawuz	16970	Square box, complete	5.50
Zacawuy	16971	Plug	1.50

WATERTIGHT FLOOR RECEPTACLES.

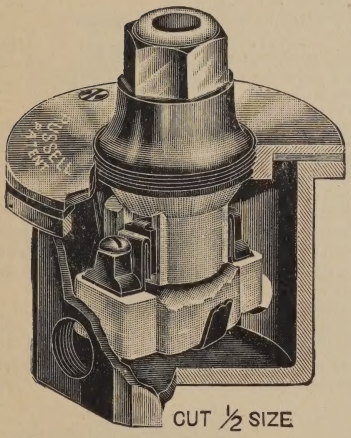


No. 14927.

WATERTIGHT PORCELAIN PLUG FLOOR RECEPTACLE.

ADJUSTABLE TOP.

Code Word.	List No.		List Price, Each.
Zacalow	14927	Complete	$5.50
Zacalox	14928	Porcelain plug only..	.30

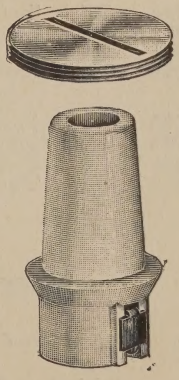


No. 14929.

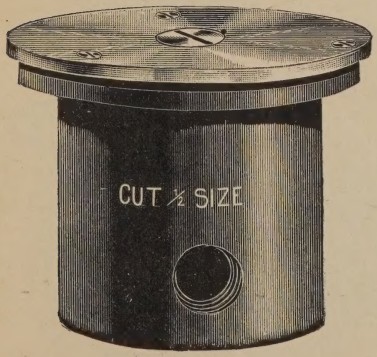
WATERTIGHT PORCELAIN PLUG FLOOR RECEPTACLE.

NON-ADJUSTABLE TOP.

Zacaloy	14929	Complete	4.00
Zacaloz	14930	Porcelain plug only..	.30



PORCELAIN PLUG FOR NOS. 14927 AND 14929.



No. 14931.

PLAIN WATERTIGHT FLOOR BOX.

WITH BRASS COVER AND FLUSH PLUG.

Zacalu	14931	.....	2.00

G. I. WATER AND DUST PROOF FLOOR OUTLET BOX.

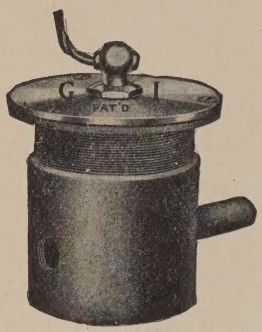


Fig. 1.

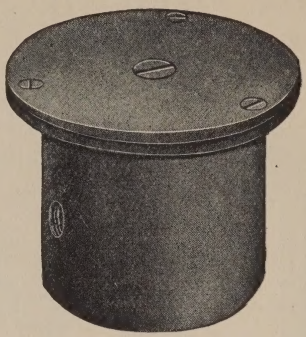


Fig. 2.

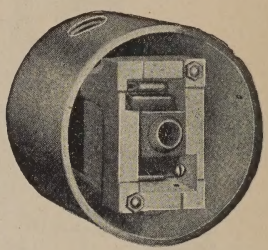


Fig. 3.

Code Word.	List No.	Mfr. No.		List Price Each.
Zabafak	47241	750	Box complete, with round brass floor plate and single outlet nozzle	$3.50
Zabafal	47242	740	Box complete, with square brass floor plate and single outlet nozzle	3.80
Zabafam	47243	752	Separate single outlet nozzle, see fig. 5	.65
Zabafan	47244	753	Brass flush floor plug, see fig. 2	.12
Zabafap	47245	754	Separate round brass cover, without nozzle or plug, as shown on top of fig. 2	1.00
Zabafar	47246	744	Separate square brass cover, without nozzle or plug. The boxes are also used with a cast iron floor plate instead of the standard brass plate when a cheaper box is desired, the cast iron being finished smooth and electroplated	1.15
Zabafas	47247	755	Similar to Cat. No. 47241, with round iron floor plate.	3.30
Zabafat	47248	745	Similar to Cat. No. 47242, with square iron floor plate. To conform to specifications which sometimes call for porcelain enamel lining we can furnish the boxes with the bottom and the side surfaces white porcelain enameled.	3.60
Zabafav	47249	757	Similar to Cat. No. 47241, with porcelain enamel lining.	4.20
Zabafaw	47250	747	Similar to Cat. No. 47242, with porcelain enamel lining.	4.50
Zabafax	47251	759	Similar to Cat. No. 47247, with porcelain enamel lining.	4.00
Zabafaz	47252	749	Similar to Cat. No. 47248, with porcelain enamel lining. Receptacles and plugs are not included in the above prices. They may be furnished as follows:	4.30
Zabafe	47253		Porcelain receptacle and plug, as shown in fig. 4	.37
Zabafeb	47254		Porcelain receptacle and plug, as shown in fig. 3	1.20
Zabafed	47255		Porcelain receptacle only, as shown in fig. 3	1.00
Zabafef	47256		Two supporting posts for receptacle, shown in fig. 3	.10

Fig. 4.

DIMENSIONS OF BOX.

5¾ inches diameter across floor plate.

4½ inches diameter lower body casting.

Height adjustable from 4 to 5 inches.

Weight complete with outlet nozzle, 3⅝ lbs.

Sides threaded for ½ inch conduit. Can be tapped for larger size if so ordered.

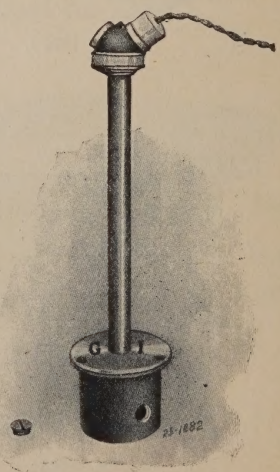
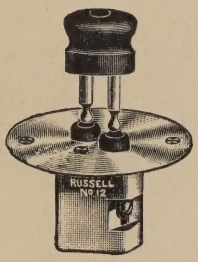
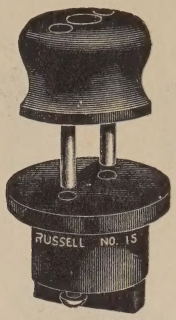


Fig. 5.

WORKING RECEPTACLES.

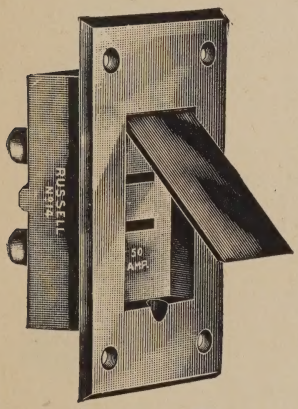


No. 5138.



No. 5140.

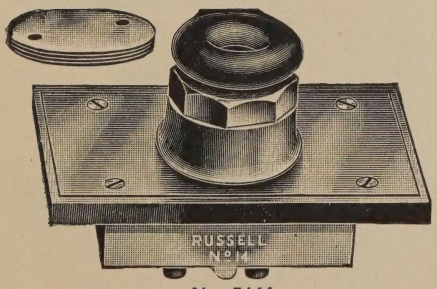
Code Word.	List No.	Mfr. No.		List Price, Each.
Zadewuf	5138	12	5 amp. spring jack receptacle and plug, complete with brass face-plate	$1.20
Zadewug	5139		Plug only	.30
Zadewuh	5140	15	Hard fibre push-in plug and receptacle	1.50
Zadewuk	5141		Plug only	.70



No. 5142.

Zadewul 5142 14 50 amp. flush wall receptacle with fibre handle plug, heavy beveled edge brass face-plate, mounted in iron box, complete 13.00

Zadewum 5143 Plug only 3.00



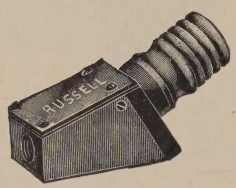
No. 5144.

Zadewun 5144 14F Same as above, fitted with heavy floor plate, plug cover and flush cap complete 15.00

WORKING RECEPTACLES.

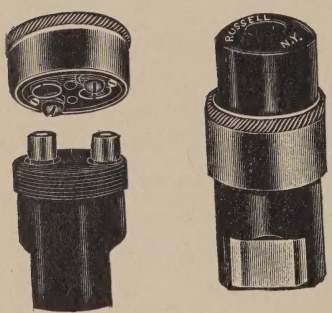
No. 9033.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zadewif	9033	455	10 amp. flap door, iron box, receptacle and push-in plug	$2.50
			Push-in plug only	1.00



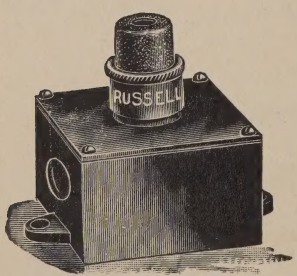
No. 9034.

Zadewig	9034	456	10 amp. heavy brass spring jack, brewery receptacle and plug, for conduit	6.00
			Plug only	1.50



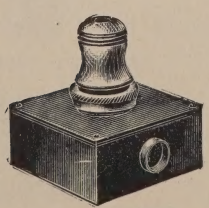
No. 9035.

Zadewih	9035	457	20 amp. enclosed fuse plug, adapted to hard usage.	
			For special receptacle	2.00



No. 9036.

Zadewik	9036	486	20 amp. heavy iron box receptacle with enclosed fuse plug, No. 457	6.50

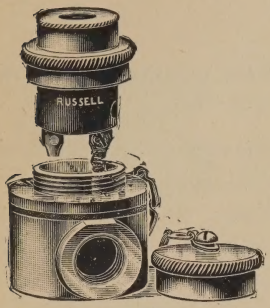


No. 9037.

Zadewil	9037	485	75 amp. heavy iron box receptacle and plug	17.00
			For 200 amp	20.00

The above for 1 in., 1¼ or 1½ in. conduit.

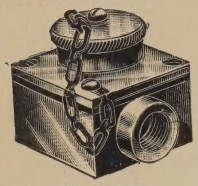
MARINE RECEPTACLES.



No. 5121.
(½ Full Size.)

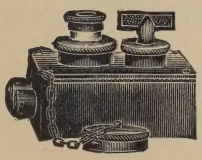
Code Word.	List No.	Mfr. No.		List Price, Each.
Zadewok	5121	458	1 amp. marine receptacle and plug, brass box complete..	$5.20
			Plug only.....	2.00

For ¼, ⅜ or ½ inch pipe.



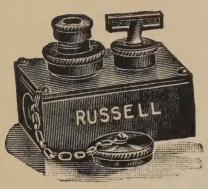
No. 5122.

Zadewol	5122	459	Same as above except in square box, complete.....	5.00



No. 5123.

Zadewom	5123	449	10 amp. marine switch and receptacle for moulding, complete	6.40

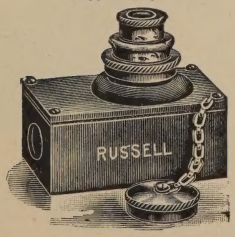


No. 5124.

Zadewon	5124	478	10 amp. marine switch and receptacle for ½ or ¾ inch conduit	6.00

No. 5125.

Zadewop	5125	479	10 amp. marine receptacle in rectangular box for ½ or ¾ inch conduit.....	5.00
			Plug only for Nos. 449, 478 or 479	1.20

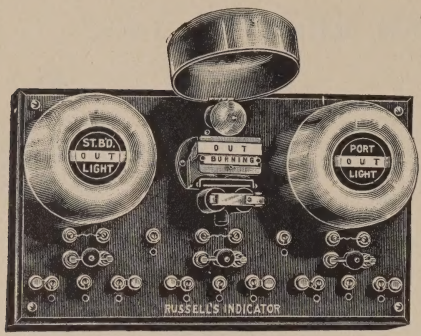


No. 5126.

Zadewor	5126	480	50 amp. marine receptacle, complete, for ¾ or 1 inch conduit	15.00

(Specify size of outlets.)

MARINE SUPPLIES.



No. 5127.

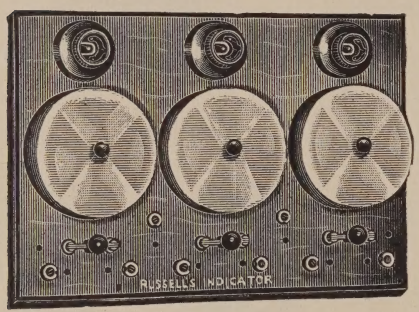
AUTOMATIC RUNNING LIGHT INDICATOR AND CONTROL.

Indicates when a signal light goes out by a vibrator, telltale lamp and annunciator drop.

At the same time closes a circuit to a reserve lamp, insuring constant light.

Requires three wires to each lantern.

Code Word.	List No	Mfr. No.		List Price, Each.
Zadewos	5127	500	Per light.....	$40.00



No. 5128.

SIMPLE INDICATING TELL TALE.

Vibrator and tell tale lamp. Indicates when a lamp goes out.

Requires two wires to each lantern.

Zadewot	5128	501	Per light.....	20.00

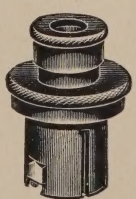
10 AMPERE MARINE RECEPTACLE AND PLUG.

No. 5129.

No. 5131.

Zadewov	5129	484	3 wire complete for ¾ inch conduit.....	7.00
Zadewow	5130	484A	3 wire complete for 1 inch conduit.....	7.00
Zadewox	5131	453	3 wire complete for moulding.....	8.50
Zadewoy	5132	453	3 wire plug complete.....	2.00

No. 5134.

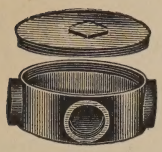


No. 5133.

No. 5136.

Zadewoz	5133	452	2 wire plug only.....	1.20
Zadewu	5134	447	2 wire complete for ½ inch conduit.....	4.50
Zadewub	5135	447A	2 wire complete for ¾ inch conduit.....	4.50
Zadewuc	5136	448	Complete, 10 amp. S. P. switch for ½ inch conduit.....	4.50
Zadewud	5137	448A	Complete, 10 amp. S. P. switch for ¾ inch conduit.....	4.50

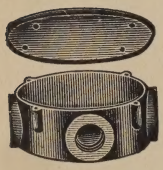
JUNCTION BOXES.



No. 5111.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zadewix	5111	433	4 inch brass junction box with screw cover and gasket	$2.40
Zadewiy	5112	433A	4 inch iron junction box with screw cover and gasket	1.40

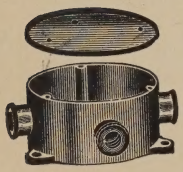
For ½ or ¾ inch conduit. Tapping per hole, .5 net.



No. 5113.

Zadewiz	5113	432	4 inch brass junction box with cap cover and gasket	1.60
Zadewo	5114	432A	4 inch iron junction box with cap cover and gasket	.90

For ½, ¾ or 1 inch conduit. Tapping per hole, .5 net.



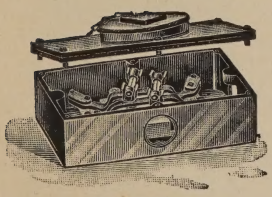
No. 5115

Zadewob	5115	454	4 inch brass junction box with cap cover and gasket and fitted with gland outlet	1.60
			Glands extra	.40

No. 5116.

Zadewoc	5116	481	3 inch brass junction box with cap cover and gasket	1.50
Zadewod	5117	481A	3 inch iron junction box with cap cover and gasket	.60

For ½ or ¾ inch conduit. Tapping per hole, .5 net.



No. 5118.

Zadewof	5118	482	3 inch brass junction box with cap cover and lamp receptacle	1.90
Zadewog	5119	482A	3 inch iron junction box with cap cover and lamp receptacle	1.00

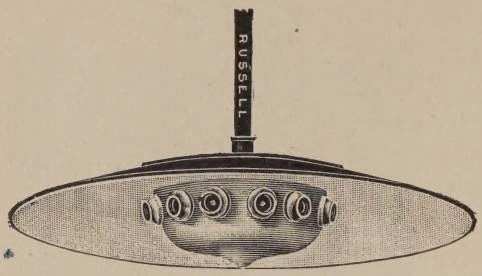
For ½ or ¾ inch conduit. Tapping per hole, .5 net.

No. 5120.

Zadewoh	5120	483	Brass marine junction box with glass tube fuse cut-out, list price each	5.50

For ½ or ¾ inch conduit.

WEATHERPROOF CLUSTERS.

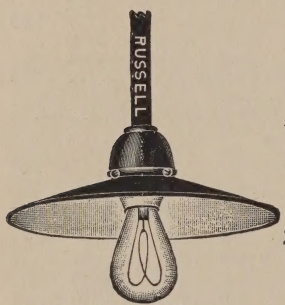


No. 4027.

Any size Reflector fitted with Russell Weatherproof Receptacle No. 10.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zadera	4027	460	.....	*

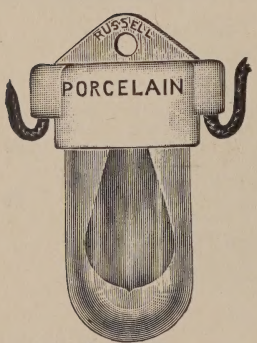
*On application.



No. 4028.

Brass Cap Shade Holder and Russell Weatherproof Receptacle No. 10, with Porcelain Enameled Shade. For ⅜ inch or ½ inch conduit.

Zaderab 4028 461 ..... $2.50

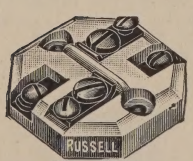


No. 4029.

ACID PROOF FIXTURE.

With Screw Globe.

Zaderac 4029 6 ..... 2.00

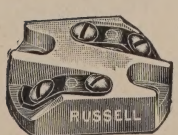


No. 4030.

DOUBLE BRANCH BLOCK.

For Junction Box.

Zaderad 4030 11 ..... .30



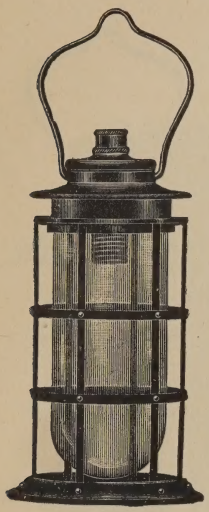
No. 4031.

SINGLE BRANCH BLOCK.

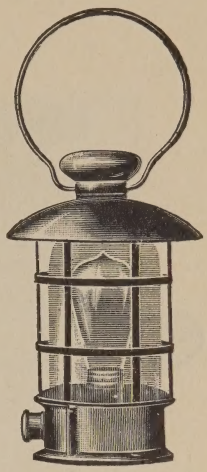
For Junction Box.

Zaderaf 4031 8½ ..... .20

MARINE SUPPLIES.

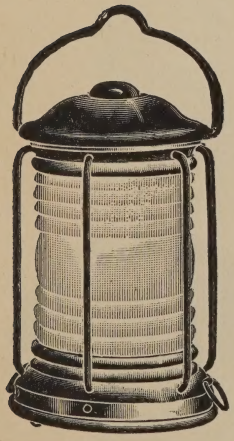


No. 46148.

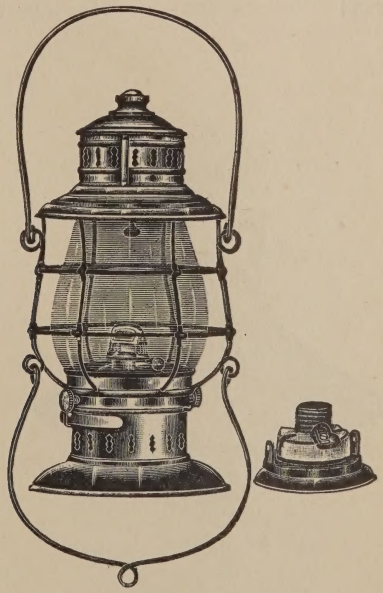


No. 46149.

Code Word.	List No.		List Price Each.
Zuneb	46148	Heavy brass, navy form, watertight deck lantern, complete..	$4.25
Zuned	46149	Heavy brass, watertight, base outlet, deck lantern, complete.	5.00



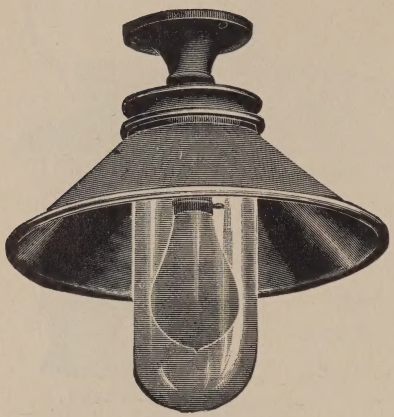
No. 46150.



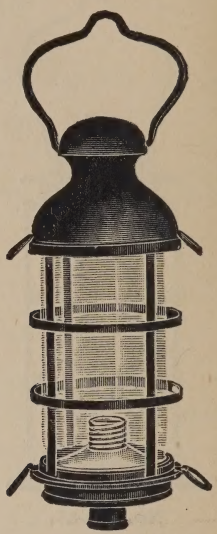
No. 46151.

Zunef	46150	Brass 4 in. fresnal globe, pole or staff light, with base outlet, complete.....	5.50
		Colored Globes Extra.	
Zuneg	46151	Brass oil and electric lantern, complete	3.00

MARINE SUPPLIES.

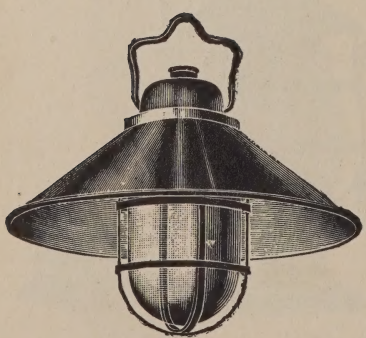


No. 45987.

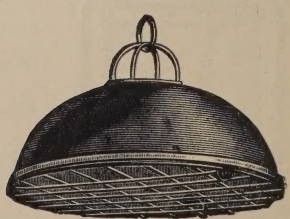


No. 45988.

Code Word	List No.		List Price Each.
Zulib	45987	Heavy brass watertight reflector, complete.....	$3.85
Zulid	45988	Brass watertight pole or staff light, complete.....	3.95



No. 45989.



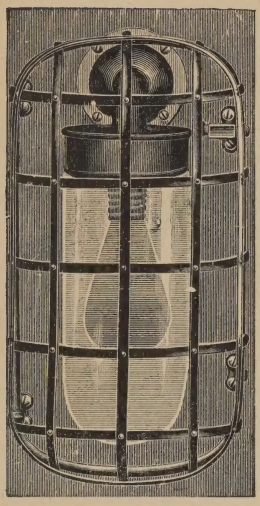
No. 45990.

Zulif	45989	Heavy brass watertight 1 light gangway reflector.....	5.50
Zulig	45990	Heavy brass 18 in. diameter 4 light cargo reflector, goose neck body.....	15.00
Zulih	45991	Heavy brass 18 in. diameter 4 light cargo reflector, wireless porcelain body,.....	12.50
Zacapuh	16204	Steel bowl—4 Lt. Wireless Porcelain Body.....	9.00

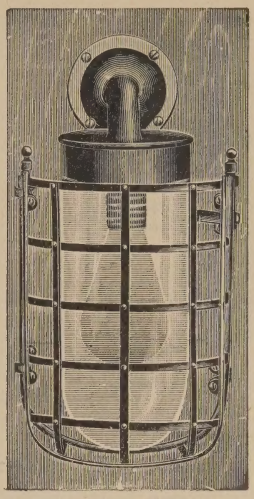
MARINE SUPPLIES.

BRASS BULKHEAD FIXTURES.

WATERTIGHT.



No. 15010.

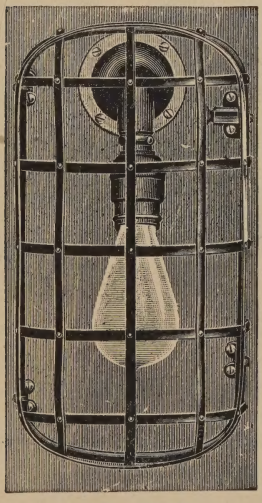


No. 15011.

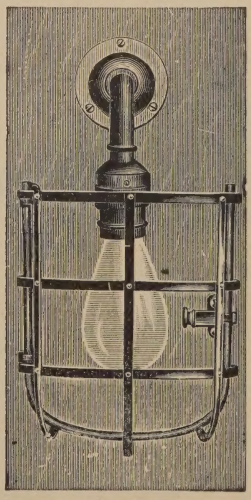
Code Word.	List No.		List Price, Each.
Zacamim	15010	Full basket guarded fixture, complete	$4.50
Zacamin	15011	Half basket guarded fixture, complete	4.00

All mounted on heavy white pine blocks, guards hinged.

NON-WATERTIGHT.



No. 15012.



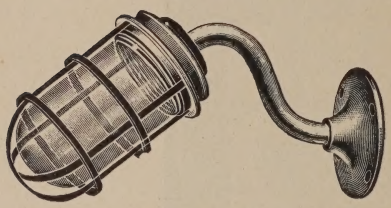
No. 15013.

Zacamip	15012	Full basket guarded fixture, complete	3.40
Zacamir	15013	Half basket guarded fixture, complete	2.90

The above in black bronze or brass finish.
These fixtures are adapted for any class of work where a guarded fixture is required.

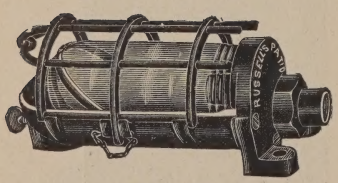
GUARDED FIXTURES.

No. 9017.

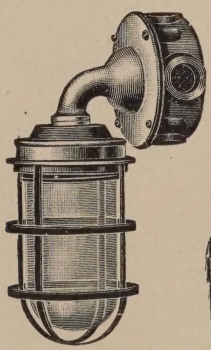


No. 9018.

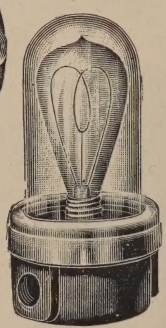
Code Word.	List No.	Mfr. No.		List Price, Each.
Zadewel	9017	392	Guarded brass non-watertight fixture for moulding.....	$2.00
Zadewem	9018	418	Guarded brass watertight 45 degree angle fixture.....	4.00



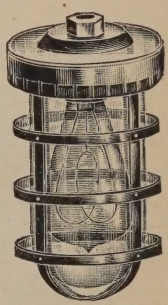
No. 9019.



No. 9020.



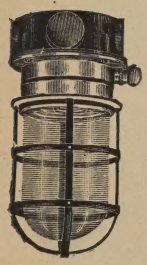
No. 9022.



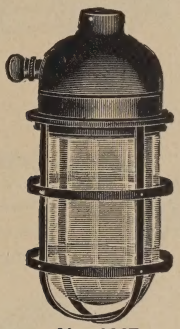
No. 9023.

Zadewen	9019	410	Patent watertight, very heavy steel guard, white enamel reflector body, deck fixture.....	4.60
Zadewep	9120	404	Heavy brass, guarded, watertight, right angle fixture on 4-inch iron junction box.....	3.60
Zadewer	9021	404A	Heavy brass, guarded, watertight, right angle fixture, on 4-inch brass junction box.....	4.00
Zadewes	9022	464	Double gasket waterproof fixture and iron junction box with brass ring.....	1.40
Zadewet	9023	465	Double gasket waterproof fixture, all brass, for conduit direct	2.30
Zadewev	9024	465A	Above, without guard.....	1.90

GUARDED BRASS WATER TIGHT FIXTURES.



No. 9026.



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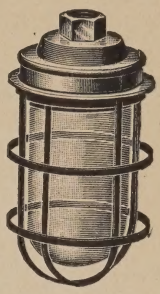
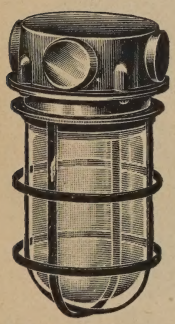
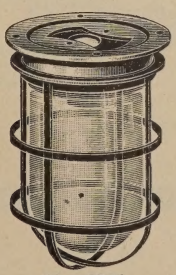


No. 9028.

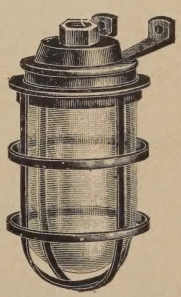
Code Word.	List No.	Mfr. No.		List Price, Each.
Zadewew	9025	431A	With switch on brass junction box	$5.00
Zadewex	9026	431	With switch on iron junction box	4.50
Zadewey	9027	430	With switch, for ½ or ¾ inch conduit	3.75
Zadewez	9028	411	Without switch, for ½ or ¾ inch conduit	2.30



No. 9029.



No. 9031.

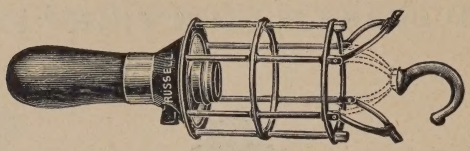


No. 9032.

Zadewi	9029	405	Mounted on iron junction box, list price each	2.70
Zadewib	9030	405A	Mounted on brass junction box, list price each	3.10
Zadewic	9031	415	Fitted for moulding block, list price each	2.05
Zadewid	9032	411F	Fitted with feet, for ½ or ¾ inch conduit, list price each	2.65

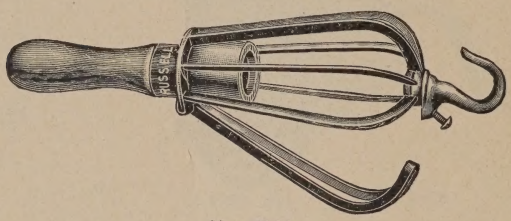
(Specify conduit outlet.)

HAND PORTABLES.



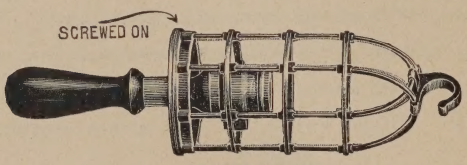
No. 5347.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zadesuv	5347	472	Brass, open end hand portable	$2.00



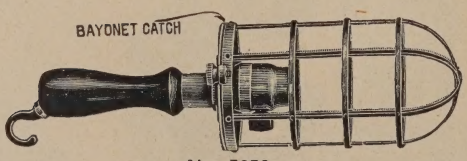
No. 5348.

Zadesuw	5348	473	Very heavy steel guard, side open, hand portable	2.00



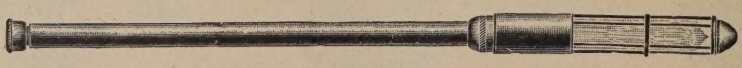
No. 5349.

Zadesux	5349	474	Very heavy brass guard hand portable	2.25



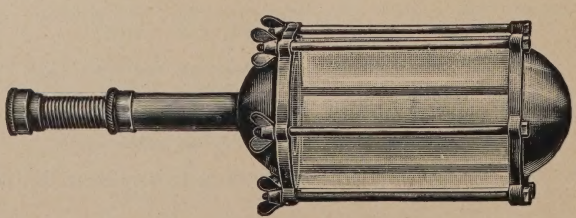
No. 5350.

Zadesuz	5350	475	Aluminum head-steel wire hand portable	1.35



No. 5351.

Zadeta	5351	445	Waterproof bunghole hand portable	6.50



No. 5352.

Zadetab	5352	477	Heavy brass diving lamp	10.00

G. E. MARINE SUPPLIES.

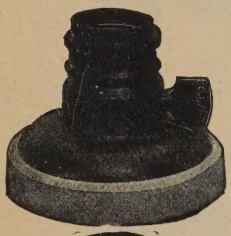
SOCKETS AND RECEPTACLES LISTED ON THIS PAGE HAVE NAVY STANDARD FINISH.

No. 12802.

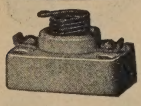
No. 12803.

No. 12804.

No. 12806.


No. 12807.

No. 12808.


No. 12809.

No. 12810.

Code Word.	List No.	Mfr. No.		List Price.
Zaburuv	12802	50966	Key socket	$0.50
Zaburow	12803	50965	Keyless socket	.45
Zaburox	12804	22656	Non-watertight 10 amp. snap switch	.60
Zaburoy	12805		Interior fittings	.50
Zaburoz	12806	22287	Non-watertight receptacle	.35
Zaboru	12807	9449	Non-watertight key receptacle, with double pole fuse	.60
Zaburub	12808	22654	Non-watertight keyless receptacle	.55
Zaburuc	12809	50790	Non-watertight miniature receptacle for binnacle lamps.	.15
Zaburud	12810	36697	Non-watertight attaching plug	.27

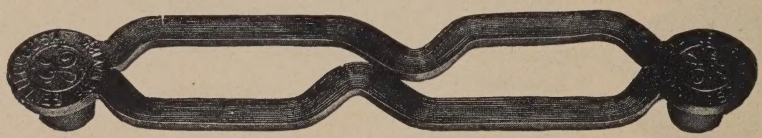
G. E. RAIL BONDS.

We are agents for the General Electric Company Rail Bonds and Railway Line Material and are in a position to furnish all devices appertaining to electric railway work promptly and at lowest market prices.

Rail Bonds are divided into two general classes: Terminal stud type and Soldered type.

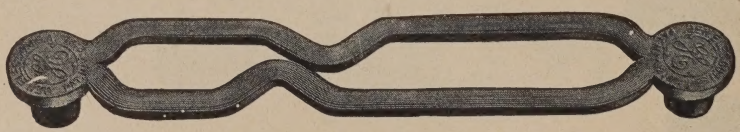
TERMINAL STUD BONDS.

Terminal Stud Bonds are made in three styles for different classes of service. In each style the terminal is a drop forging of pure copper, of highest conductivity, arranged for the reception of the conductor, to which it is welded by a special patented process which prevents the oxidation of the surfaces during welding, and it is believed that this process is the only one by which a perfect weld can be effected without destructive heating of the material.



Form A-1 Ribbon Bond, Center Tucking.

The ribbon bond is furnished for use under the fish plate, where because of restricted space extreme compactness of design is necessary. The conductor of this bond is composed of thin copper ribbons, pressed into such shape as required by the space between the fish plate and web of rail, together with spacing between fish plate bolt holes.



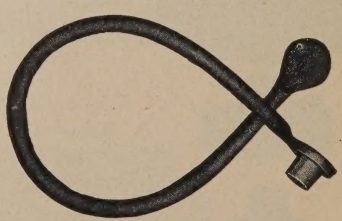
Form A-2 Ribbon Bond, Offset Tucking.

For use where bond holes are in end of one rail and between fish plate bolt holes in other rail.

Form A-3 Unbalanced Ribbon Bond, Offset Tucking.

For use where the space above and below the fish plate bolts is unevenly divided.

Form "D" Cable Bond.



Form "E" Solid Wire Bond.

Outside of fish plate, where vibration is considerable, cable bonds are used. In these the conductor is a single cable of concentric copper wires of extreme flexiiblity, welded to the terminals by the patented process.

Solid Wire Bonds: Where long distances are to be spanned, and especially in the absence of serious vibration, solid wire bonds afford sufficient flexibility.

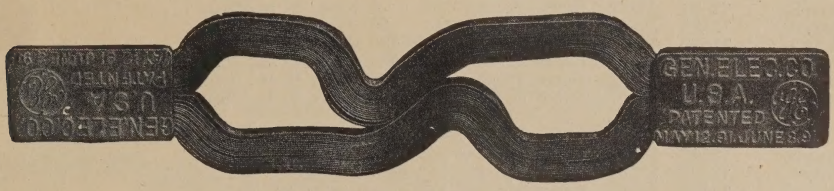
G. E. RAIL BONDS.

Separate Bond Terminal, with Solid Head.

In many cases of special work separate bond terminals are required. These can be supplied already drilled and tinned for soldering to the conductor.

SOLDERED BONDS.

Soldered Bonds are designed for use when the space under the fish plate will not accommodate a terminal stud bond of the required capacity, or to avoid the removal of the fish plate. They are made in three standard forms.

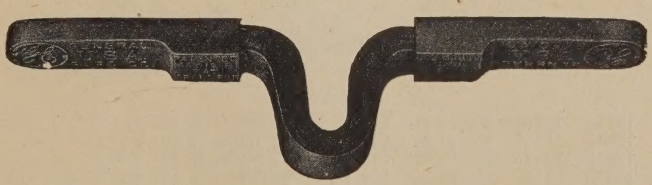


Form A. S. Bonds.

For attachment to web under fish plate.
Special Catalogue on Railway Line Material and Rail Bonds sent on application.

Form B. S. Bond.

Form B. S. Bonds are applied to the outer side of the rail head and do not require removal of the fish plate for their installation.



Form B. B. S. Bonds.

The Form B. B. S. Bond is designed for attachment to the top or bottom of the rail base.

The prices of various styles of bonds are so numerous and change so frequently that we prefer to quote them on application and request our patrons to observe the following:

Standard forms are carried in stock and for all ordinary conditions immediate shipments can be made. Quotations will be submitted on receipt of specifications, giving type and dimensions of bonds required or following data on conditions under which they are to be used.

1—Name of maker and section number of rail, or sketch showing section through rail and fish plate.

2—Distance from end of rail to center of first bolt hole and distance between center of first and second bolt holes.

3—Diameter of fish plate bolts.

Special Catalogue on Railway Line Material and Rail Bonds sent on application.

G. E. RAILWAY MATERIAL.

SOLDERED TROLLEY EARS.

No. 13582.

15 INCH PLAIN EARS.

Code Word.	List No.	Mfr. No.		List Price, per 100.
Zabuyid	13582	16394	Form H, for No. 0 wire, ⅝ in. Tap	$55.00
Zabuyif	13583	15022	Form H, for No. 00 wire, ⅝ in. Tap	55.00
Zabuyig	13584	31665	Form H2, for No. 0 wire, ⅝ in. Tap	55.00
Zabuyih	13585	31667	Form H2, for No. 00 wire, ⅝ in. Tap	55.00
Zabuyik	13586	34111	Form H2, for No. 000 wire, ⅝ in. Tap	77.00
Zabuyil	13587	26151	Form H2, for No. 000 wire, ¾ in. Tap	77.00
Zabuyim	13588	34112	Form H2, for No. 0000 wire, ⅝ in. Tap	77.00
Zabuyin	13589	19492	Form H2, for No. 0000 wire, ¾ in. Tap	77.00
Zabuyip	13590	19424	Form J, for No. 0 wire, ⅝ in. Tap	55.00
Zabuyir	13591	19425	Form J, for No. 00 wire, ⅝ in. Tap	55.00
Zabuyis	13592	32568	Form J2, for No. 0 wire, ⅝ in. Tap	55.00
Zabuyit	13593	32569	Form J2, for No. 00 wire, ⅝ in. Tap	55.00
Zabuyiv	13594	34113	Form J2, for No. 000 wire, ⅝ in. Tap	77.00
Zabuyiw	13595	32566	Form J2, for No. 000 wire, ¾ in. Tap	77.00
Zabuyix	13596	34114	Form J2, for No. 0000 wire, ⅝ in. Tap	77.00
Zabuyiy	13597	32567	Form J2, for No. 0000 wire, ¾ in. Tap	77.00

12 INCH PLAIN EARS.

Zabuyiz	13598	32562	Form H, for No. 0 wire, ⅝ in. Tap	52.50
Zabuyo	13599	32564	Form H, for No. 00 wire, ⅝ in. Tap	52.50
Zabuyob	13600	32563	Form H2, for No. 0 wire, ⅝ in. Tap	52.50
Zabuyoc	13601	32565	Form H2, for No. 00 wire, ⅝ in. Tap	52.50
Zabuyod	13602	32570	Form J, for No. 0 wire, ⅝ in. Tap	52.50
Zabuyof	13603	32572	Form J, for No. 00 wire, ⅝ in. Tap	52.50
Zabuyog	13604	32571	Form J2, for No. 0 wire, ⅝ in. Tap	52.50
Zabuyoh	13605	32573	Form J2, for No. 00 wire, ⅝ in. Tap	52.50

9 INCH PLAIN EARS.

Zobuyok	13606	16034	Form H, for No. 0 wire, ⅝ in. Tap	37.00
Zabuyol	13607	15157	Form H, for No. 00 wire, ⅝ in. Tap	37.00
Zabuyom	13608	31666	Form H2, for No. 0 wire, ⅝ in. Tap	37.00
Zabuyon	13609	31668	Form H2, for No. 00 wire, ⅝ in. Tap	37.00
Zabuyop	13610	32574	Form J, for No. 0 wire, ⅝ in. Tap	37.00
Zabuyor	13611	32576	Form J, for No. 00 wire, ⅝ in. Tap	37.00
Zabuyos	13612	32575	Form J2, for No. 0 wire, ⅝ in. Tap	37.00
Zabuyot	13613	32577	Form J2, for No. 00 wire, ⅝ in. Tap	37.00

15 INCH FEEDER EARS.

No. 13614.

Zabuyov	13614	15120	Form H, for No. 0 wire, ⅝ in. Tap	77.50
Zabuyow	13615	15121	Form H, for No. 00 wire, ⅝ in. Tap	77.50
Zabuyox	13616	34115	Form H2, for No. 000 wire, ⅝ in. Tap	105.00
Zabuyoy	13617	26152	Form H2, for No. 000 wire, ¾ in. Tap	105.00
Zabuyoz	13618	34116	Form H2, for No. 0000 wire, ⅝ in. Tap	105.00
Zabuyu	13619	26153	Form H2, for No. 0000 wire, ¾ in. Tap	105.00

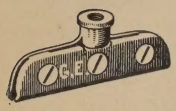
19 INCH STRAIN EARS.

No. 13620.

Zabuyub	13620	15140	Form H, for No. 0 wire, ⅝ in. Tap	100.00
Zabuyuc	13621	15147	Form H, for No. 00 wire, ⅝ in. Tap	100.00
Zabuyud	13622	34117	Form H2, for No. 000 wire, ⅝ in. Tap	125.00
Zabuyuf	13623	26156	Form H2, for No. 000 wire, ¾ in. Tap	125.00
Zabuyug	13624	34118	Form H2, for No. 0000 wire, ⅝ in. Tap	125.00
Zabuyuh	13625	26157	Form H2, for No. 0000 wire, ¾ in. Tap	125.00

G. E. RAILWAY MATERIAL.

EARS FOR GROOVED WIRE.



No. 13642.

5 INCH PLAIN, 5/8 INCH TAP.

Code Word.	List No.	Mfr. No.		List Price, per 100.
Zabuya	13642	19432	Malleable iron, japanned	$30.00
Zabuyab	13643	37804	Malleable iron, galvanized	32.50
Zabuyac	13644	27627	Composition	62.50

7 INCH PLAIN, 5/8 INCH TAP.

Zabuyad	13645	34123	Malleable iron, japanned	35.00
Zabuyaf	13646	37805	Malleable iron, galvanized	37.50
Zabuyag	13647	34124	Composition	85.00

7 INCH PLAIN, 3/4 INCH TAP.

Zabuyah	13648	11291	Malleable iron, japanned	35.00
Zabuyak	13649	37806	Malleable iron, galvanized	37.50
Zabuyal	13650	27628	Composition	85.00

No. 13645.

CURVE.

5/8 INCH TAP.

Zabuyam	13651	19433	Malleable iron, japanned	42.50
Zabuyan	13652	37807	Malleable iron, galvanized	45.00

HEAVIER DESIGN, 7/16 INCH FLANGE.

Zabuyap	13653	34125	5/8 in. Tap, malleable iron, japanned	42.50
Zabuyar	13654	37808	5/8 in. Tap, malleable iron, galvanized	45.00
Zabuyas	13655	19494	3/4 in. Tap, malleable iron, japanned	42.50
Zabuyat	13656	37685	3/4 in. Tap, malleable iron, galvanized	45.00

No. 13651.

FEEDER.

5/8 INCH TAP.

Zabuyav	13657	19435	Composition	105.00

HEAVIER DESIGN, 7/16 INCH FLANGE.

Zabuyaw	13658	34126	5/8 in. Tap, composition	105.00
Zabuyax	13659	21486	3/4 in. Tap, composition	105.00

STRAIN.

No. 13660.

Zabuyay	13660	19434	5/8 in. Tap, composition	125.00

HEAVIER DESIGN, 7/16 INCH FLANGE.

Zabuyaz	13661	34127	5/8 in. Tap, composition	125.00
Zabuye	13662	21485	3/4 in. Tap, composition	125.00

SPLICING EARS.

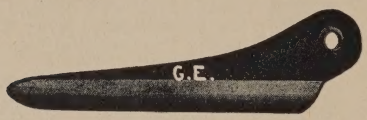
No. 13663.

Zabuyeb	13663	19436	For No. 00 grooved wire, 5/8 in. Tap	175.00
Zabuyec	13664	21487	For No. 00 grooved wire, 3/4 in. Tap	175.00
Zabuyed	13665	19437	For No. 000 grooved wire, 5/8 in. Tap	175.00
Zabuyef	13666	21488	For No. 000 grooved wire, 3/4 in. Tap	175.00
Zabuyeg	13667	19438	For No. 0000 grooved wire, 5/8 in. Tap	175.00
Zabuyeh	13668	21454	For No. 0000 grooved wire, 3/4 in. Tap	175.00

G. E. RAILWAY MATERIAL.

SOLDERED TROLLEY EARS.

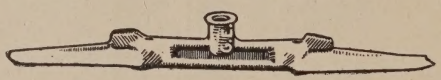
8 INCH SINGLE END STRAIN EARS.



No. 13626.

Code Word.	List No.	Mfr. No.		List Price, per 100.
Zabuyek	13626	30459	For No. 0 wire	$40.00
Zabuyel	13627	30460	8 inch single end strain ear for No. 00 wire	40.00
Zabuyem	13628	34121	8 inch single end strain ear for No. 000 wire	50.00
Zabuyen	13629	34122	8 inch single end strain ear for No. 0000 wire	50.00

15 INCH SPLICING EARS.



No. 13630.

Zabuyep	13630	15138	Form H, for No. 0 wire, ⅝ inch tap	100.00
Zabuyer	13631	12900	Form H, for No. 00 wire, ⅝ inch tap	100.00
Zabuyes	13632	34119	Form H2, for No. 000 wire, ⅝ inch tap	125.00
Zabuyet	13633	26154	Form H2, for No. 000 wire, ¾ inch tap	125.00
Zabuyev	13634	34120	Form H2, for No. 0000 wire, ⅝ inch tap	125.00
Zabuyew	13635	26155	Form H2, for No. 0000 wire, ¾ inch tap	125.00

FLEXIBLE EARS.

No. 13636.

Zabuyex	13636	17302	For No. 0 wire, ⅝ inch tap	110.00
Zabuyey	13637	19484	For No. 00 wire, ⅝ inch tap	110.00

CLAMPING EARS.

No. 13638.

Zabuyez	13638	16379	Form B, ⅝ inch tap	100.00
Zabuyi	13639	15899	Form B, 7/16 inch tap	100.00

AUTOMATIC EARS.

MALLEABLE IRON, JAPANNED.

No. 13640.

Zabuyib	13640	17338	⅝ inch tap	30.00

No. 13641.

Zabuyic	13641	Adapted for above	45.00

G. E. RAILWAY MATERIAL.

No. 13313.

No. 13314.

FORM D CAP AND CONE SUSPENSIONS.

Code Word.	List No.	Mfr. No.		List Price, per 100.
Zacabez	13313	16925	Screw Cap Insulator, ⅝ in. Stud	$31.50
Zacabi	13314	16926	Cone for No. 16925	18.50
Zacabib	13315	26143	Screw Cap Insulator, ¾ in. Stud	34.00
Zacabic	13316	26144	Cone for No. 26143	18.50
Zacabid	13317	19480	Lock Washer for all Form D Suspensions.	5.00

FORM D SUSPENSIONS. STRAIGHT LINE.

No. 13318.

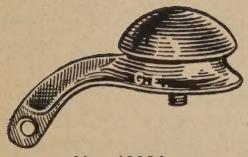
JAPANNED.

Zacabif	13318	17565	⅝ in. Stud	67.50
Zacabig	13319	26142	¾ in. Stud	70.00
Zacabih	13320	15788	Straight line body	17.50

GALVANIZED.

Zacabik	13321	37979	⅝ in. Stud	73.33
Zacabil	13322	37981	¾ in. Stud	75.83
Zacabim	13323	39700	Straight line body	23.33

SINGLE CURVE.


No. 13324.

JAPANNED.

Zacabin	13324	17567	⅝ in. Stud	73.50
Zacabip	13325	26145	¾ in. Stud	76.00
Zacabir	13326	15789	Single curve body	23.50

GALVANIZED.

Zacabis	13327	37983	⅝ in. Stud	81.33
Zacabit	13328	37984	¾ in. Stud	83.83
Zacabiv	13329	39701	Single curve body	31.33

DOUBLE CURVE.

No. 13330.

JAPANNED.

Zacabiw	13330	17566	⅝ in. Stud	82.50
Zacabix	13331	26146	¾ in. Stud	85.00
Zacabiy	13332	15790	Double curve body	32.50

GALVANIZED.

Zacabiz	13333	37986	⅝ in. Stud	93.33
Zacabo	13334	37988	¾ in. Stud	95.83
Zacabob	13335	39702	Double curve body	43.33

G. E. RAILWAY MATERIAL.

No. 13336.

FORM "D" CEILING SUSPENSIONS.

JAPANNED.

Code Word.	List No.	Mfr. No.		List Price, per 100.
Zacabaw	13336	17570	⅝ in. Stud	$91.00
Zacabax	13337	27550	¾ in. Stud	93.50
Zacabay	13338	15819	Ceiling body	41.00

GALVANIZED.

Zacabaz	13339	37991	⅝ in. Stud	104.66
Zacabe	13340	37993	¾ in. Stud	107.16
Zacabeb	13341	39703	Ceiling body	54.66

No. 13342.

FORM "D" MINING SUSPENSION.

Zacabec	13342	37681	Single Bolt Suspension, ⅝ in. Stud.	124.00
Zacabed	13343	16387	Single Bolt body	50.00
Zacabef	13344	35689	Roof Bolt (⅝ in.-11, 5 in. special)	10.00
Zacabeg	13345	35690	Upper Roof Wedge	8.00
Zacabeh	13346	35691	Lower Roof Wedge	6.00

FORM "D" STRAIN SUSPENSIONS.

JAPANNED.

Zacabek	13347	17571	Strain Suspension, ⅝ in. Stud	74.00
Zacabel	13348	17082	Strain body	24.00

GALVANIZED.

No. 13347.

Zacabem	13349	37997	Strain Suspension, ⅝ in. Stud	82.00
Zacaben	13350	39705	Strain body	32.00

FORM "D" BRACKET SUSPENSION.

JAPANNED.

Zacabep	13351	17568	⅝ in. Stud, for 2 in. pipe	138.00
Zacaber	13352	17569	⅝ in. Stud, for 1½ in. pipe	138.00
Zacabes	13353	16960	Bracket body, for 2 in. pipe	88.00
Zacabet	13354	16961	Bracket body, for 1½ in. pipe	88.00

GALVANIZED.

No. 13351.

Zacabev	13355	38005	⅝ in. Stud, for 2 in. pipe	167.33
Zacabew	13356	38006	⅝ in. Stud, for 1½ in. pipe	167.33
Zacabex	13357	39706	Bracket body, for 2 in. pipe	117.33
Zacabey	13358	39707	Bracket body, for 1½ in. pipe	117.33

G. E. RAILWAY MATERIAL.

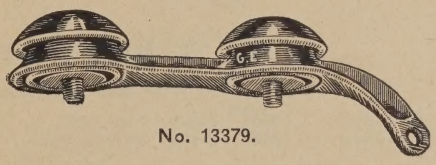
FORM "D" SUSPENSIONS.

DOUBLE TROLLEY, STRAIGHT LINE.

No. 13373.

Code Word.	List No.	Mfr. No.		List Price, per 100.
			JAPANNED.	
Zabuzuy	13373	19487	⅝ in. Stud	$141.00
Zabuzuz	13374	21482	¾ in. Stud	146.00
Zacaba	13375	26147	Double Trolley, straight line body	41.00
			GALVANIZED.	
Zacabab	13376	38010	⅝ in. Stud	154.66
Zacabac	13377	38012	¾ in. Stud	159.66
Zacabad	13378	39708	Double Trolley, straight line body	54.66

DOUBLE TROLLEY, SINGLE CURVE.



No. 13379.

			JAPANNED.	
Zacabaf	13379	19488	⅝ in. Stud	150.00
Zacabag	13380	21483	¾ in. Stud	155.00
Zacabah	13381	26148	Double Trolley, single curve body	50.00
			GALVANIZED.	
Zacabak	13382	38014	⅝ in. Stud	166.66
Zacabal	13383	38016	¾ in. Stud	171.66
Zacabam	13384	39709	Double Trolley, single curve body	66.66

DOUBLE TROLLEY, DOUBLE CURVE.

No. 13385.

			JAPANNED.	
Zacaban	13385	19489	⅝ in. Stud	160.00
Zacabap	13386	21484	¾ in. Stud	165.00
Zacabar	13387	26149	Double Trolley, double curve body	60.00
			GALVANIZED.	
Zacabas	13388	39927	⅝ in. Stud	180.00
Zacabat	13389	39928	¾ in. Stud	185.00
Zacabav	13390	39710	Double Trolley, double curve body	80.00

G. E. RAILWAY MATERIAL.

FORM "H" SUSPENSIONS.

No. 13391.

STRAIGHT LINE.

JAPANNED.

Code Word.	List No.	Mfr. No.		List Price, per 100.
Zabuzok	13391	19429	3¼ in., ⅝ in. Stud	$75.00
Zabuzol	13392	39687	3¼ in., ¾ in. Stud	77.50
Zabuzom	13393	39689	3½ in., ⅝ in. Stud	90.00
Zabuzon	13394	19495	3½ in., ¾ in. Stud	92.50

GALVANIZED.

Zabuzop	13395	25980	3¼ in., ⅝ in. Stud	80.00
Zabuzor	13396	39688	3¼ in., ¾ in. Stud	82.50
Zabuzos	13397	39690	3½ in., ⅝ in. Stud	95.00
Zabuzot	13398	25979	3½ in., ¾ in. Stud	97.50

CEILING.

No. 13399.

JAPANNED.

Zabuzov	13399	19044	⅝ in. Stud	75.00

GALVANIZED.

Zabuzow	13400	27370	⅝ in. Stud	80.00

FORM "H" MINING SUSPENSION.

Complete with Roof Bolt and Wedges, ⅝ in. Stud.

Zabuzox	13401	35685	Japanned	99.00
Zabuzoy	13402	35686	Galvanized	104.00

Without Roof Bolt and Wedges, ⅝ in. Stud.

Zabuzoz	13403	35687	Japanned	75.00
Zabuzu	13404	35688	Galvanized	80.00
Zabuzub	13405	35689	Roof Bolt (⅝ in.-11, 5 in. special)	10.00
Zabuzuc	13406	35690	Upper Roof Wedge	8.00
Zabuzud	13407	35691	Lower Roof Wedge	6.00

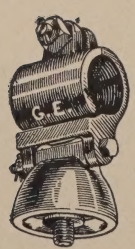
No. 13401.

FORM "H2" MINING SUSPENSION.

Complete with Lag Screw, ⅝ in. Stud.

Zabuzuf	13408	34135	Japanned	82.00
Zabuzug	13409	34136	Galvanized	87.00
Zabuzuh	13410	34137	Wooden Plug (3x1½ in.)	15.00
Zabuzuk	13418	36310	Lag Screw (⅝, 3⅞ in. special)	7.00

FORM "H" SUSPENSION BRACKET.



No. 13419.

JAPANNED.

Zabuzul	13419	19045	⅝ in. Stud for 2 in. pipe	135.00
Zabuzum	13420	19046	⅝ in. Stud for 1½ in. pipe	135.00
Zabuzun	13421	19047	Without Clamp	75.00
Zabuzup	13422	17564	Clamp for 2 in. pipe	60.00
Zabuzur	13423	17563	Clamp for 1½ in. pipe	60.00

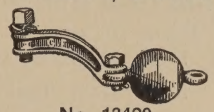
GALVANIZED.

Zabuzus	13424	25992	⅝ in., Stud for 2 in. pipe	145.00
Zabuzut	13425	25993	⅝ in. Stud for 1½ in. pipe	145.00
Zabuzuv	13426	25994	Without Clamp	80.00
Zabuzuw	13427	25996	Clamp for 2 in. pipe	65.00
Zabuzux	13428	25997	Clamp for 1½ in. pipe	65.00

G. E. RAILWAY MATERIAL.

FORM "H" SUSPENSIONS.

SINGLE TROLLEY, SINGLE CURVE.



No. 13429.

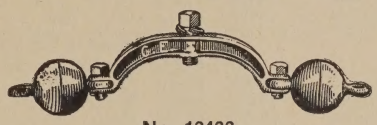
JAPANNED.

Code Word.	List No.	Mfr. No.		List Price, per 100.
Zabuzip	13429	19440	⅝ in. Bolt	$100.00
Zabuzir	13430	19496	¾ in. Bolt	102.50

GALVANIZED.

Zabuzis	13431	25987	⅝ in. Bolt	105.00
Zabuzit	13432	25983	¾ in. Bolt	107.50

SINGLE TROLLEY, DOUBLE CURVE.



No. 13433.

JAPANNED.

Zabuziv	13433	19439	⅝ in. Bolt	180.00
Zabuziw	13434	19497	¾ in. Bolt	182.50

GALVANIZED.

Zabuzix	13435	25988	⅝ in. Bolt	187.50
Zabuziy	13436	25986	¾ in. Bolt	190.00

DOUBLE TROLLEY, SINGLE CURVE.

No. 13437.

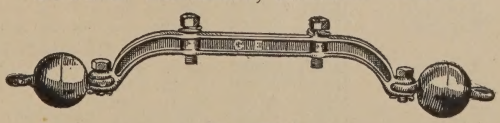
JAPANNED.

Zabuziz	13437	19498	⅝ in. Bolt	130.00
Zabuzo	13438	11292	¾ in. Bolt	135.00

GALVANIZED.

Zabuzob	13439	27377	⅝ in. Bolt	137.50
Zabuzoc	13440	27374	¾ in. Bolt	142.50

DOUBLE TROLLEY, DOUBLE CURVE.



No. 13441.

JAPANNED.

Zabuzod	13441	19499	⅝ in. Bolt	212.50
Zabuzof	13454	11293	¾ in. Bolt	217.50

GALVANIZED.

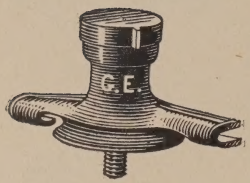
Zabuzog	13455	27376	⅝ in. Bolt	225.00
Zabuzoh	13456	27375	¾ in. Bolt	230.00

G. E. RAILWAY MATERIAL.

FORM "G" SUSPENSIONS.

INSULATED BOLTS.

THREADED ⅝ IN.-11.



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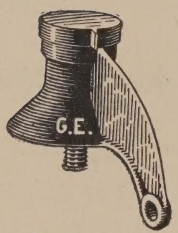

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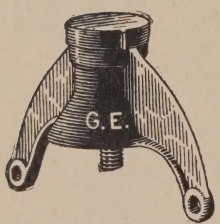

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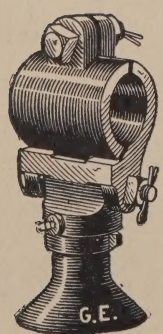
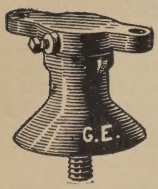


No. 13547.

Code Word.	List No.	Mfr. No.		List Price per 100.
Zabuzaf	13457	17207	Interchangeable in all Form "G" Suspensions	$45.00
Zabuzag	13458	17341	Special for Automatic Ear in all Form "G" Suspensions	45.00
			STRAIGHT LINE.	
			MALLEABLE IRON, JAPANNED.	
Zabuzah	13459	17509	⅝ in. Stud	95.00
Zabuzak	13460	17521	Body, only	35.00
Zabuzal	13461	17522	Cap, only	15.00
			MALLEABLE IRON, GALVANIZED.	
Zabuzam	13462	25976	⅝ in. Stud	100.00
Zabuzan	13463	25977	Body, only	37.00
Zabuzap	13464	25978	Cap, only	18.00
			COMPOSITION.	
Zabuzar	13465	17421	⅝ in. Stud	185.00
Zabuzas	13466	17514	Body, only	110.00
Zabuzat	13467	17515	Cap, only	30.00
			SINGLE CURVE.	
			MALLEABLE IRON, JAPANNED.	
Zabuzav	13468	17513	⅝ in. Stud	95.00
Zabuzaw	13469	17526	Body, only	35.00
Zabuzax	13470	17522	Cap, only	15.00
			MALLEABLE IRON, GALVANIZED.	
Zabuzay	13532	25981	⅝ in. Stud	100.00
Zabuzaz	13533	25982	Body, only	37.00
Zabuze	13534	25978	Cap, only	18.00
			COMPOSITION.	
Zabuzeb	13535	17425	⅝ in. Stud	195.00
Zabuzec	13536	17518	Body, only	120.00
Zabuzed	13537	17515	Cap, only	30.00
			DOUBLE CURVE.	
			MALLEABLE IRON, JAPANNED.	
Zabuzef	13538	17510	⅝ in. Stud	105.00
Zabuzeg	13539	17523	Body, only	45.00
Zabuzeh	13540	17522	Cap, only	15.00
			MALLEABLE IRON, GALVANIZED.	
Zabuzek	13541	25984	⅝ in. Stud	112.50
Zabuzel	13542	25985	Body, only	49.50
Zabuzem	13543	25978	Cap, only	18.00
			COMPOSITION.	
Zabuzen	13544	17422	⅝ in. Stud	220.00
Zabuzep	13545	17517	Body, only	145.00
Zabuzer	13546	17515	Cap, only	30.00
			BRACKET SUSPENSIONS.	
			MALLEABLE IRON, JAPANNED.	
Zabuzes	13547	17512	⅝ in. Stud for 2 in. pipe	170.00
Zabuzet	13548	17511	⅝ in. Stud for 1½ in. pipe	170.00
Zabuzev	13549	17524	Body, only	27.00
Zabuzew	13550	17525	Cap, only	38.00
Zabuzex	13551	17564	Clamp for 2 in. pipe	60.00
Zabuzey	13552	17563	Clamp for 1½ in. pipe	60.00
			MALLEABLE IRON, GALVANIZED.	
Zabuzez	13553	25989	⅝ in. Stud for 2 in. pipe	180.00
Zabuzi	13554	25990	⅝ in. Stud for 1½ in. pipe	180.00
Zabuzib	13555	25991	Body, only	29.00
Zabuzic	13556	25995	Cap, only	41.00
Zabuzid	13557	26996	Clamp for 2 in. pipe	65.00
Zabuzif	13558	25997	Clamp for 1½ in. pipe	65.00
			COMPOSITION.	
Zabuzig	13559	17424	⅝ in. Stud for 2 in. pipe	245.00
Zabuzih	13560	17423	⅝ in. Stud for 1½ in. pipe	245.00
Zabuzik	13561	17519	Body, only	86.00
Zabuzil	13562	17520	Cap, only	54.00
Zabuzim	13563	17564	Clamp for 2 in. pipe	60.00
Zabuzin	13564	17563	Clamp for 1½ in. pipe	60.00

G. E. RAILWAY MATERIAL.



No. 13565.

FORM "G" SUSPENSIONS.

CEILING.

MALLEABLE IRON, JAPANNED.

Code Word.	List No.	Mfr. No.		List Price, per 100.
Zabuyuk	13565	16396	⅝ in. Stud	$100.00
Zabuyul	13566	17524	Body, only	27.00
Zabuyum	13567	17701	Cap, only	28.00

MALLEABLE IRON, GALVANIZED.

Zabuyun	13568	25998	⅝ in. Stud	105.00
Zabuyup	13569	25991	Body, only	29.00
Zabuyur	13570	25999	Cap, only	31.00

No. 13574.

COMPOSITION.

Zabuyus	13571	16397	⅝ in. Stud	190.00
Zabuyut	13572	17519	Body, only	86.00
Zabuyuv	13573	17599	Cap, only	59.00

SOCKET CEILING.

MALLEABLE IRON, JAPANNED.

No. 13578.

Zabuyuw	13574	38688	⅝ in. Stud	75.00
Zabuyux	13575	38689	Body, only	30.00

MALLEABLE IRON, GALVANIZED.

Zabuyuy	13576	38690	⅝ in. Stud	80.00
Zabuyuz	13577	38691	Body, only	35.00

SUSPENSIONS, FEEDER TAP.

STRAIGHT LINE FEEDER SUSPENSION.

No. 13580.

Zabuza	13578	11294	⅝ in. Bolt	66.50
Zabuzab	13579	11296	¾ in. Bolt	66.50

FEEDER CLAMP.

Zabuzac	13580	16380	⅝ in. Bolt	75.00

FEEDER YOKE.

No. 13581.

Zabuzad	13581	15804	⅝ in. Bolt	175.00

G. E. RAILWAY MATERIAL.

FEEDER WIRE POLE INSULATORS.

COMPOSITION CAP.

No. 13758.

Code Word.	List No.	Mfr. No.		List Price, per 100.
Zabuwux	13758	16951	With Clips for 0000 Conductor.....	$162.50
Zabuwuy	13759	16952	With Clips for 500000 C. M. Conductor....	162.50
Zabuwuz	13760	51892	With Clips for 800000 C. M. Conductor....	187.50
Zabuxa	13761	51891	With Clips for 1500000 C. M. Conductor...	187.50

MALLEABLE IRON CAP, JAPANNED.

Zabuxab	13762	21455	With Clips for 500000 C. M. Conductor....	82.50
Zabuxac	13763	51897	With Clips for 800000 C. M. Conductor....	95.00
Zabuxad	13764	51896	With Clips for 1500000 C. M. Conductor...	95.00

No. 13765.

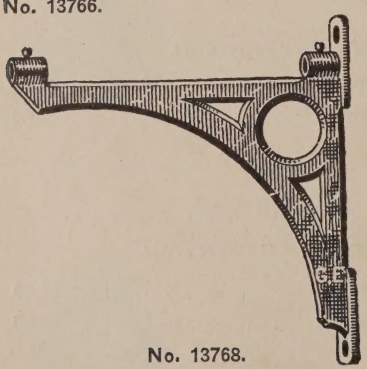
Zabuxaf 13765 17307 For 1⅛ inch Conductor 237.50

Furnished with solid cap if desired.

No. 13766.

CAST IRON INSULATOR BRACKET.

Zabuxag 13766 17194 ..... 75.00



No. 13768.

SHORT BRACKET FOR 1½ IN. PIPE.

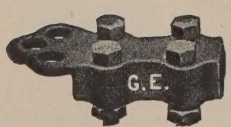
Length, 22 9/16 in. Height, 28½ in. Diameter of hole, 2⅛ in. Weight, 23 pounds.

Zabuxah 13767 15026 ..... 375.00

LONG BRACKET FOR 1½ IN. PIPE.

Length, 30 9/16 in. Height, 28½ in. Diameter of hole, 2⅛ in. Weight, 29 pounds.

Zabuxak 13768 15037 ..... 455.00



No. 13769.

TROLLEY TERMINAL CLAMP.

FOR DEAD ENDING TROLLEY WIRES.

				Each.
Zabuxal	13769	27436	Malleable iron, Japanned.....	1.35
Zabuxam	13770	27437	Malleable iron, galvanized.....	1.45

No. 13771.

TROLLEY WIRE HAULING CLAMP.

Zabuxan 13771 16915 ..... 1.80

G. E. RAILWAY MATERIAL.

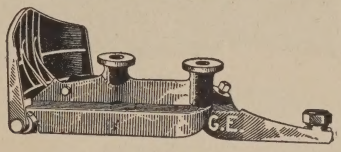
FORM "G" TROLLEY FROGS.

Manufactured exclusively by the General Electric Company.

No. 13689.

Code Word.	List No.	Mfr. No.		List Price, Each.
			20 DEGREES.	
Zabuxiy	13689	17347	Right hand	$7.50
Zabuxiz	13690	17348	Left hand	7.50
Zabuxo	13691	17346	V	7.50
Zabuxob	13692	19400	20 degree 3-way Frog	10.00
			15 DEGREES.	
Zabuxoc	13693	19478	Right hand	10.00
Zabuxod	13694	19479	Left hand	10.00
Zabuxof	13695	19477	V	10.00
Zabuxog	13696	37487	15 degree 3-way Frog	12.50
			8 DEGREES.	
Zabuxoh	13697	19459	Right hand	15.00
Zabuxok	13698	19460	Left hand	15.00
Zabuxol	13699	19458	V	15.00

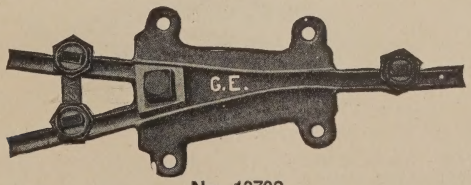
DRAW BRIDGE FROGS.



No. 13700.

Zabuxom	13700	16395	Complete, ⅝ in. Tap	13.50
Zabuxon	13701	15993	Without spring contact	10.00

FORM "G" FROGS, WITH FOUR PULL OFF RINGS.



No. 13702.

			20 DEGREES.	
Zabuxop	13702	29133	Right hand	7.50
Zabuxor	13703	29134	Left hand	7.50
Zabuxos	13704	29132	V	7.50
			15 DEGREES.	
Zabuxot	13705	29130	Right hand	10.00
Zabuxov	13706	29131	Left hand	10.00
Zabuxow	13707	29129	V	10.00
			8 DEGREES.	
Zabuxox	13708	29127	Right hand	15.00
Zabuxoy	13709	29128	Left hand	15.00
Zabuxoz	13710	29126	V	15.00

G. E. RAILWAY MATERIAL.

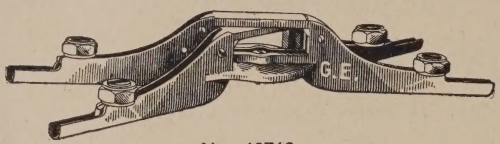
FORM "G" CROSSINGS.

RIGHT ANGLE.

No. 13711.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zabuxim	13711	11297	For wires up to and including 0000, round or grooved.....	$7.50

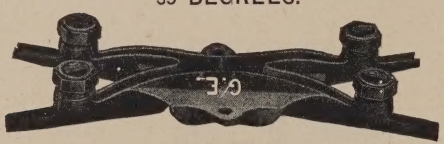
ADJUSTABLE.



No. 13712.

Zabuxin	13712	11298	For wires up to and including 0000, round or grooved.....	10.00

35 DEGREES.



No. 13713.

Zabuxip	13713	19476	For 000 wire.....	7.50

15 DEGREES.

Zabuxir	13714	19490	For 0000 wire.....	7.50

FORM "F" FROGS.

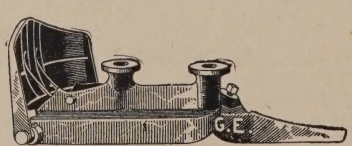
Manufactured exclusively by the General Electric Company.

20 DEGREES.

No. 13715.

Zabuxis	13715	17440	Right hand.....	6.00
Zabuxit	13716	17441	Left hand.....	6.00
Zabuxiv	13717	17442	V	6.00

DRAWBRIDGE FROGS.

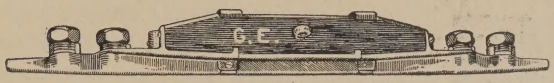


No. 13718.

Zabuxiw	13718	17430	Complete, ⅝ in. Tap.....	12.00
Zabuxix	13719	17431	Without spring contact.....	9.00

G. E. RAILWAY MATERIAL.

FORM "L" SECTION INSULATORS.



No. 13720.

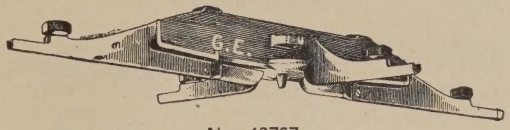
Code Word.	List No.	Mfr. No.		List Price, Each.
Zabuxen	13720	19410	For 0 and 00 Wire, round or grooved	$10.00
Zabuxep	13721	21456	Wooden runway for above	.25
Zabuxer	13722	19491	For Wire up to and including 0000, round or grooved	12.50
Zabuxes	13723	21456	Wooden runway for above	.25

AUTOMATIC.

No. 13724.

Zabuxet	13724	34870	For Wire up to and including 0000, round or grooved	17.00
Zabuzev	13725	34871	Switch Clips, with screws, per 100	7.00
Zabuxew	13726	34872	Locking Spring, per 100	10.00

FORM "L" INSULATED CROSSINGS.



No. 13727.

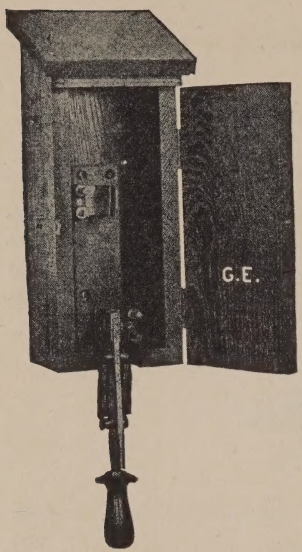
Zabuxex	13727	19406	For 0 or 00 Wire, round or grooved	17.50
Zabuxey	13728	19407	White fibre runway for above	1.00

No. 13729.

Zabuxez	13729	26150	For Wire up to and including 0000, round or grooved	20.00
Zabuxi	13730	21457	White fibre runway for above	1.00
Zabuxib	13731	30609	15 degree insulated crossing, for wire up to and including No. 0000, round or grooved	20.00
Zabuxic	13732	30610	White fibre runway for above	2.50
Zabuxid	13733	30611	20 degree insulated crossing, for wire up to and including No. 0000, round or grooved	20.00
Zabuxif	13734	30612	White fibre runway for above	2.50
Zabuxig	13735	30613	27 degree insulated crossing, for wire up to and including No. 0000, round or grooved	20.00
Zabuxih	13736	30614	White fibre runway for above	2.00
Zabuxik	13737	30615	35 degree insulated crossing, for wire up to and including No. 0000, round or grooved	20.00
Zabuxil	13738	30616	White fibre runway for above	2.00

G. E. RAILWAY MATERIAL.

SECTION SWITCH.

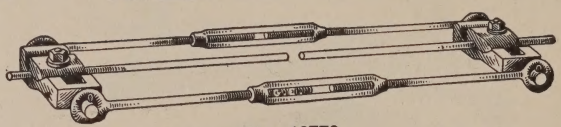


No. 13772.

In these Switch Boxes the movable side of the Switch is connected to the trolley line, and the box is so constructed that the cover can be closed and locked, whether the Switch be open or closed, thus preventing any interference with the line by unauthorized persons.

Code Word.	List No.	Mfr. No.		List Price, Each.
Zabuwuh	13772	17237	400 amperes, with box....	$12.00
Zabuwuk	13773	17995	400 amperes, without box.	9.50
Zabuwul	13774	17997	600 amperes, with box....	20.50
Zabuwum	13775	12830	600 amperes, without box.	16.50
Zabuwun	13776	17998	1200 amperes, with box....	33.00
Zabuwup	13777	19456	1200 amperes, without box.	29.00
Zabuwur	13778	17744	Section Switch and Fuse Block, 400 amperes, with box	17.00

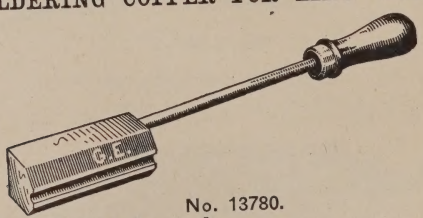
TROLLEY WIRE TIGHTENER.



No. 13779.

Zabuwus 13779 16914 ..... 8.50

SOLDERING COPPER FOR LINE WORK.



No. 13780.

Zabuwut 13780 16762 Weight, 6 pounds..... 5.00

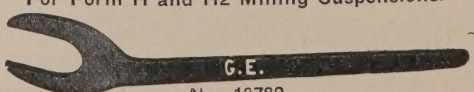
TONGS FOR TIGHTENING CAP AND CONE SUSPENSIONS.

No. 13781.

Zabuwuv 13781 19457 ..... 1.45

WRENCH.

For Form H and H2 Mining Suspensions.

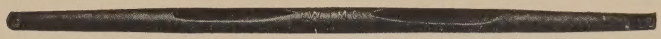


No. 13782.

Zabuwuw 13782 35799 ..... .30

RAILWAY MATERIAL.

PHILADELPHIA SPLICING SLEEVE.



Made of best grade special rolled brass rod, having greatest tensile strength.

FOR ROUND WIRE.

Code Word.	List No.	Mfr. No.		List Price Per 100.
Zifas	10744	1127	Solder Sleeve; 11/16x18 inches, 1/0 round wire; weight, 18 ounces	$127.50
Zifat	10745	1128	Solder Sleeve; 11/16x18 inches, 2/0 round wire; weight, 18 ounces	127.50
Zifav	10746	1133	Solder Sleeve; ¾x18 inches; 3/0 round wire; weight, 26 ounces	200.00
Zifaw	10747	1129	Solder Sleeve; ⅞x20 inches; 4/0 round wire; weight, 33 ounces	275.00
Zifax	10748	1134	Solder Sleeve; ⅝x15 inches, 1/0 round wire; weight, 12 ounces	100.00
Zifaz	10749	1132	Solder Sleeve; ⅝x16 inches, 2/0 round wire; weight, 12 ounces	115.00
Zife	10750	1135	Solder Sleeve; ⅞x18 inches, 3/0 round wire; weight, 14 ounces	200.00

FOR GROOVED WIRE.

Zifeb	10751	1138	Solder Sleeve for 2/0 Grooved Wire; ¾x18 inches; weight, 26 ounces	200.00
Zifed	10752	1116	Solder Sleeve for 3/0 Grooved Wire; ⅞x20 inches; weight, 33 ounces	275.00
Zifef	10753	1117	Solder Sleeve for 4/0 Grooved Wire; ⅞x20 inches; weight, 33 ounces	275.00

K-I SPLICING SLEEVE.

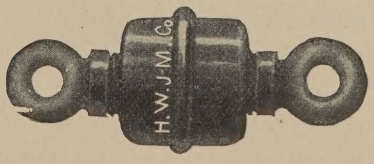
Mechanical joint. One wedge at each end.

Zifeg	10754	1120	K-I Sleeve; 10 inches long, 1/0 wire; weight, 11½ ounces.	125.00
Zifeh	10755	1118	K-I Sleeve; 15 inches long, 1/0 wire; weight, 17 ounces..	137.50
Zifek	10756	1121	K-I Sleeve; 10 inches long, 2/0 wire; weight, 14 ounces..	125.00
Zifel	10757	1119	K-I Sleeve; 15 inches long, 2/0 wire; weight, 21 ounces..	137.50
Zifem	10758	1122	K-I Sleeve; 15 inches long, 3/0 wire; weight, 21 ounces..	150.00
Zifen	10759	1123	K-I Sleeve; 15 inches long, 4/0 wire; weight, 24 ounces..	162.50
Zifep	10760	1136	K-I Sleeve; 14 inches long, 300,000 C.M.; weight 52 ounces	375.00
Zifer	10761	1137	K-I Sleeve; 14 inches long, 500,000 C.M.; weight, 64 ounces	412.50

Extra Wedges to 4/0, $5.50 per 100.

Round Section Sleeve used also on grooved wire.

NO. 2 GIANT STRAIN INSULATOR.



Zifes	10762	826	No. 2 Giant Strain; small eye both ends, takes ½-inch bolt; weight, 14½ ounces	60.00
Zifet	10763	823	No. 2 Giant Strain; small eye one end, ½-inch nut other end, small eye, takes ½-inch bolt; weight, 14 ounces....	60.00
Zifev	10764	824	No. 2 Giant Strain; ½-inch nut both ends; weight, 13½ ounces	60.00

RAILWAY MATERIAL

WOOD BREAK STRAIN INSULATOR.

Code Word.	List No.	Mfr. No.		List Price, Per 100.
Zifop	10700	994	Wood Break Strain Insulator; 1-inch diameter, 9½ inches between centers; weight, per 100, 144 lbs.	$42.50
Zifor	10701	995	Wood Break Strain Insulator; 1¼-inch diameter, 9½ inches between centers; weight, per 100, 188 lbs.	55.00
Zifos	10702	996	Wood Break Strain Insulator; 1-inch diameter, 20 inches between centers; weight, per 100, 175 lbs.	55.00
Zifot	10703	997	Wood Break Strain Insulator; 1¼-inch diameter, 20 inches between centers; weight, per 100, 300 lbs.	75.00
Zifov	10704	998	Wood Break Strain Gooseneck Insulator, with nut; tapped ⅝ inch; weight, per 100, 125 lbs.	50.00

WOODEN TREE INSULATOR.

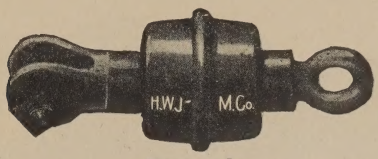
Patented.

Zifow	10705	1006	Size ⅜x12 inches long, No. 6 wire; weight, each, 6 ounces.	211.25
Zifox	10706	1007	Size ⅜x18 inches long, No. 6 wire; weight, each, 8 ounces	243.75
Zifoz	10707	1008	Size ⅝x13½ inches long, 0 wire; weight, each, 9 ounces.	269.75
Zifu	10708	1009	Size ⅝x18 inches long, 0 wire; weight, each, 10 ounces.	292.50
Zifub	10709	1010	Size ¾x13½ inches long, 0000 wire; weight, each, 11 ounces	260.00
Zifud	10710	1011	Size ¾x18 inches long, 0000 wire; weight, each, 15 ounces	325.00
Zifuf	10711	1012	Size 1¼x13½ inches long, 500,000 C.M.; weight, each, 13½ ounces	487.50
Zifug	10712	1013	Size 1¼x18 inches long, 500,000 C.M.; weight, each, 16 ounces	503.75

RAILWAY MATERIAL.

NO. 2 GIANT STRAIN INSULATOR.

WITH CLEVIS AND LARGE EYE COMBINATION.

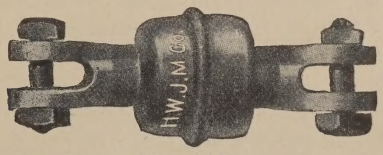


Patented.

Code Word.	List No.	Mfr. No.		List Price, Per 100.
Zigan	10669	825	No. 2 Giant Strain; small eye one end, clevis on other end; eye takes ½-inch bolt, clevis has 9/16-inch spread, takes ⅜-inch bolt: weight, 18½ ounces	$70.00
Zigap	10670	829	No 2 Giant Strain; large eye both ends, takes ⅝-inch bolt; weight, 17 ounces	80.00
Zigar	10671	828	No. 2 Giant Strain; large eye one end, small eye other end, large eye takes ⅝-inch bolt, small eye takes ½-inch bolt; weight, 16 ounces	70.00

NO. 2 GIANT STRAIN INSULATOR.

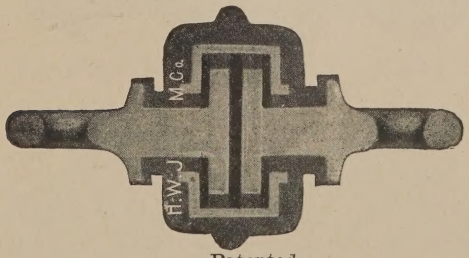
WITH CLEVIS AND LARGE EYE COMBINATION.



Patented.

Zigas	10672	827	No. 2 Giant Strain; clevis both ends; clevis has 9/16-inch spread, takes ⅜-inch bolt; weight, 22 ounces	80.00
Zigat	10673	852	No. 2 Giant Strain; clevis one end and large eye on the other; clevis has 9/16-inch spread, takes ⅜-inch bolt, eye takes ⅝-inch bolt; weight, 17½ ounces	80.00
Zigav	10674	853	No. 2 Giant Strain; large eye one end, ½-inch nut other end, eye takes ⅝-inch bolt; weight, 16 ounces	70.00

NO. 1 GIANT STRAIN INSULATOR.

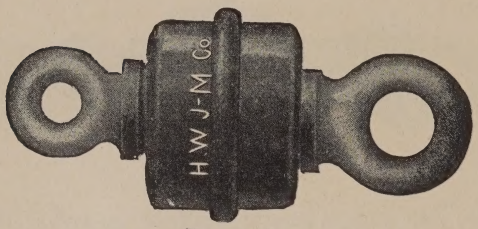


Patented.

Zigaw	10675	830	No. 1 Giant Strain; 9/16-inch eyes, takes ½-inch bolt; weight 27 ounces	95.00
Zigax	10676	831	No. 1 Giant Strain; ⅝-inch nut one end; weight, 25½ ounces	95.00
Zigaz	10677	835	No. 1 Giant Strain; ⅝-inch nut both ends; weight, 24 ounces	95.00

RAILWAY MATERIAL.

NO. 1 GIANT STRAIN INSULATOR.

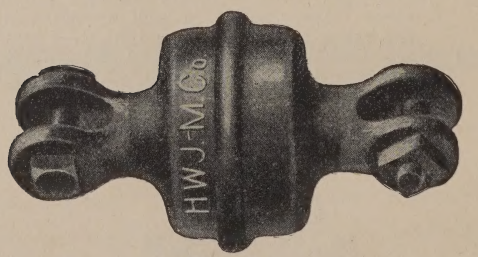


Patented.

Code Word.	List No.	Mfr. No.		List Price. Per 100.
Zifux	10678	832	No. 1 Giant Strain, with large eye on one end; takes ½ inch bolt one end, ¾-inch on other end; weight, 29 ounces	$110.00
Zifuz	10679	842	No. 1 Giant Strain, with large eye both ends; takes ¾-inch bolt both ends; weight, 31 ounces	125.00
Ziga	10680	843	No. 1 Giant Strain; large eye one end and ⅝-inch nut other end, large eye takes ¾-inch bolt; weight, 27½ ounces	110.00
Zigab	10681	845	No. 1 Giant Strain; large eye one end, large clevis other end, large eye takes ¾-inch bolt, large clevis has ⅝-inch spread and takes ½-inch bolt; weight, 35½ ounces	125.00
Zigad	10682	846	No. 1 Giant Strain; large eye one end, small clevis other end, large eye takes ¾-inch bolt, small clevis has ½-inch spread and takes ⅜-inch bolt; weight, 31½ ounces.	125.00

NO. 1 GIANT STRAIN INSULATOR.

WITH CLEVIS COMBINATION.

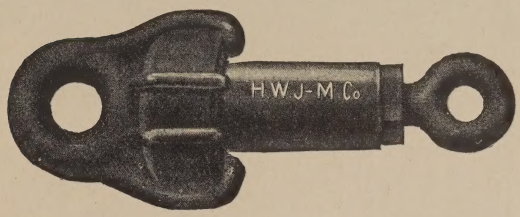


Patented.

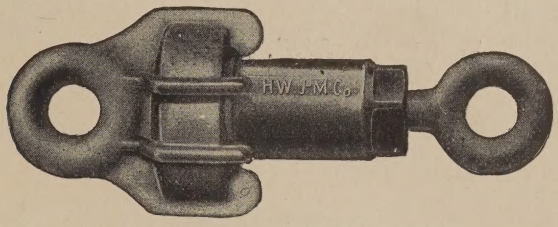
Zigaf	10683	833	No. 1 Giant Strain; small clevis one end, small eye other end, clevis has ½-inch spread and takes ⅜-inch bolt, eye takes ½-inch bolt; weight, 28½ ounces	110.00
Zigag	10684	834	No. 1 Giant Strain; large clevis one end, small eye other end, clevis has ⅝inch spread and takes ½-inch bolt, eye ½-inch bolt; weight, 34 ounces	110.00
Zigah	10685	847	No. 1 Giant Strain; small clevis both ends, small clevis has ½-inch spread and takes ⅜-inch bolt; weight, 30½ ounces	125.00
Zigak	10686	848	No. 1 Giant Strain; large clevis both ends, large clevis has ⅝-inch spread and takes ½-inch bolt; weight, 38 ounces	125.00
Zigal	10687	858	No. 1 Giant Strain; extra large clevis one end, has ¾-inch spread, takes ⅝-inch bolt; weight, 40 ounces	120.00
Zigam	10688	859	No. 1 Giant Strain; extra large clevis both ends, has ¾-inch spread, takes ⅝-inch bolt; weight, 43 ounces	135.00

RAILWAY MATERIAL.

BROOKLYN STRAIN INSULATOR.

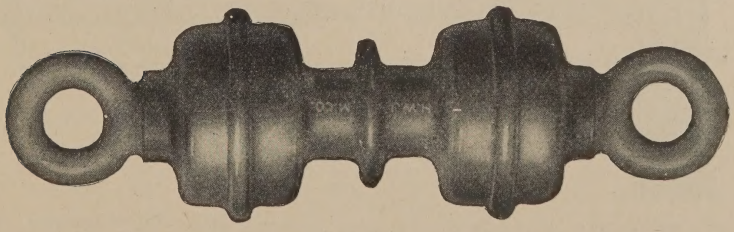


Code Word.	List No.	Mfr. No.		List Price, Per 100.
Zifuh	10689	803	Brass Brooklyn Strain Insulator; weight, 39 ounces	$237.50
Zifuk	10690	804	Brass Brooklyn Strain, with clevis; weight, 38½ ounces	267.50
Ziful	10691	805	Brooklyn Strain Insulator; malleable iron body, japanned; weight, 38½ ounces	132.50
Zifum	10692	801	Brooklyn Strain Insulator; malleable iron body, galvanized; weight, 38½ ounces	137.50
Zifun	10693	802	Brooklyn Strain Insulator; malleable iron body; galvanized, with brass bolt; weight, 40 ounces	167.50
Zifup	10694	806	Brooklyn Strain; malleable iron, galvanized, with brass clevis; weight, 39 ounces	197.50



Zifur	10695	815	Brooklyn Strain; extra heavy malleable iron, japanned; weight, 60½ ounces	250.00
Zifus	10696	807	Brooklyn Strain; extra heavy malleable iron, galvanized; weight, 60½ ounces	260.00
Zifut	10697	813	Brooklyn Strain; extra heavy malleable iron, galvanized, with brass bolt; weight, 77½ ounces	290.00
Zifuv	10698	814	Brooklyn Strain; extra heavy brass; weight, 81½ ounces.	425.00

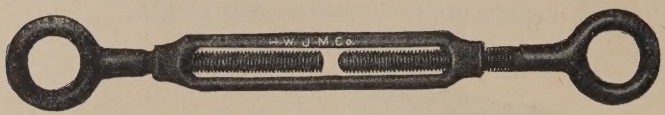
COMBINATION HIGH POTENTIAL STRAIN INSULATOR.



Zifuw	10699	836	Combination High Potential Strain Insulator; weight, 61 ounces	228.00

RAILWAY MATERIAL

TURN BUCKLE WITH WELDED EYE BOLTS.



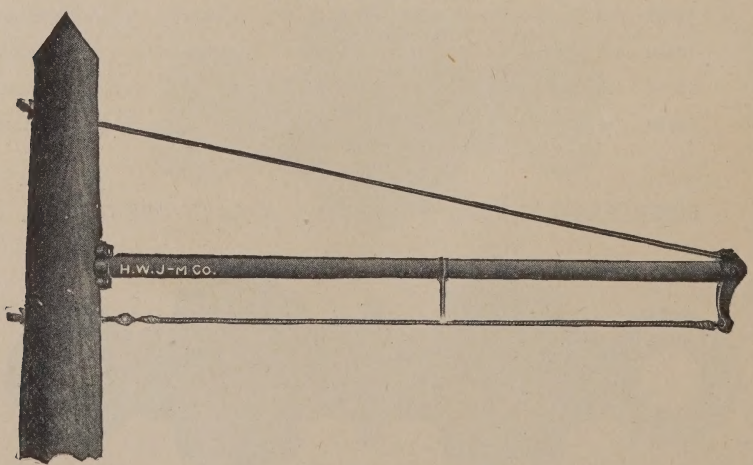
Code Word.	List No.	Mfr. No.		List Price, Per 100.
Zifik	10719	426	⅜-inch, plain; weight, 20 ounces	$107.25
Zifil	10720	427	⅜-inch, galvanized; weight, 20 ounces	123.50
Zifim	10721	428	½-inch, plain; weight, 30 ounces	149.50
Zifin	10722	429	½-inch, galvanized; weight, 30 ounces	175.50
Zifip	10723	430	⅝-inch, plain; weight, 40 ounces	191.75
Zifir	10724	431	⅝-inch, galvanized; weight, 40 ounces	230.75
Zifis	10725	432	¾-inch, plain; weight, 55 ounces	263.25
Zifit	10726	433	¾-inch, galvanized; weight, 55 ounces	341.25

These Turn Buckles will be furnished with hooks instead of eye bolts, at the above prices, when so ordered.

INSULATED TURN BUCKLE.

Zifiv	10727	436	Turn Buckle; 6-inch opening, ½-inch eye bolt, plain; weight, 33 ounces	137.50
Zifiw	10728	437	Turn Buckle; 6-inch opening, ½-inch eye bolt, galvanized; weight, 33 ounces	150.00
Zifix	10729	438	Turn Buckle; 6-inch opening, ⅝-inch eye bolt, plain; weight, 35 ounces	162.50
Zifiz	10730	439	Turn Buckle; 6-inch opening, ⅝-inch eye bolt, galvanized; weight, 35 ounces	175.00
Zifo	10731	441	Turn Buckle; 12-inch opening, ⅝-inch eye bolt, plain; weight, 50 ounces	200.00
Zifob	10732	442	Turn Buckle; 12-inch opening, ⅝-inch eye bolt, galvanized; weight, 50 ounces	220.00

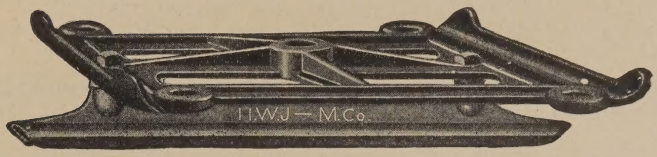
BRACKET ARMS.



Zifod	10733	294	Top Braced Flexible Bracket Arm; 1½-inch arm, 9 feet long; weight, 34 lbs	3.75
Zifof	10734	224	Top Braced Flexible Bracket Arm; 1½-inch arm, 9½ feet long; weight, 35 lbs	3.90

RAILWAY MATERIAL.

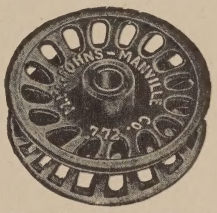
STRAIN PLATE AND EAR.



Code Word.	List No.	Mfr. No.		List Price Each.
Zifab	10765	1445	Malleable Iron Strain Plate; japanned, weight, 2½ lbs..	$0.80
Zifad	10766	1446	Malleable Iron Strain Plate; galvanized, weight, 2½ lbs..	.90
Zifaf	10767	1447	Bronze Ear; double hub, for same; weight, 18 ounces....	.72

STANDARD TROLLEY WHEELS

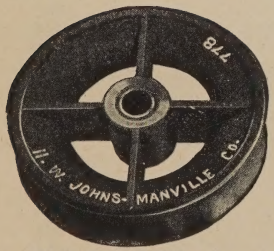
Standard Wheel.



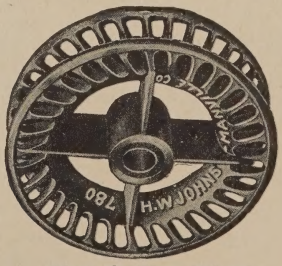
Sleet Cutting Wheel.

Zifag	10768	770	Standard Wheel; 4-inch diameter, ½-inch bushing; weight, 41 ounces.....	1.50
Zifah	10769	772	Standard Sleet Cutting Wheel; 4-inch diameter, ½-inch bushing; weight, 32 ounces.....	1.50

FOR HIGH SPEED SERVICE.



High Speed Wheel.



Sleet Cutting Wheel

Zifak	10770	778	High Speed Wheel; 5¾-inch diameter, ⅝-inch bushing; weight, 56 ounces.....	2.40
Zifal	10771	779	High Speed Wheel; 5¾-inch diameter, ½-inch bushing; weight, 56 ounces.....	2.40
Zifam	10772	780	Sleet Cutting Wheel; 5¾-inch diameter, ⅝-inch bushing; weight, 45½ ounces.....	2.40
Zifan	10773	781	Sleet Cutting Wheel; 5¾-inch diameter, ½-inch bushing; weight, 45½ ounces.....	2.40
Zifap	10774	782	High Speed Wheel; 6-inch diameter, ⅝-inch bushing; weight, 64 ounces.....	3.00
Zifar	10775	783	High Speed Wheel; 6-inch diameter, ½-inch bushing; weight, 64 ounces.....	3.00

WIRE TABLES

POLE LINE DATA.

Showing the distance between poles according to the number of poles used per mile.

Also the weight of wire in the suspension between poles, allowing for sag, calculated on weights of "O. K." triple braided line wires.

Number of poles per mile....	30	35	40	45	50	55	60	65	70	75
Distance between poles in feet	176	151	132	117	105	96	88	81	75	70

B. & S. gauge solid.	C. M. capacity stranded.	Weight lbs. per mile.	WEIGHT IN POUNDS OF WIRE IN SPAN									
	1,000,000	19,400	655	562	491	435	390	356	326	300	277	258
	900,000	17,600	597	511	446	393	355	324	295	272	241	235
	800,000	15,800	536	459	400	355	318	290	266	244	226	211
	700,000	14,000	473	405	354	313	280	256	234	215	200	186
	600,000	12,000	405	347	303	268	240	219	201	184	171	159
	500,000	10,000	340	281	253	224	200	133	168	154	143	133
	450,000	9,300	314	269	235	208	186	170	156	150	132	123
	400,000	8,400	284	243	212	188	168	153	140	129	120	111
	350,000	7,100	239	204	178	158	141	129	118	109	101	94
	300,000	6,200	209	179	156	138	124	113	103	95	88	82
	250,000	5,200	175	150	130	115	103	94	86	79	74	69
0000		4,050	136	117	102	89	81	74	68			
000		3,320	112	96	84	74	67	61	56			
00		2,650	89	77	67	59	53	48	44			
0		2,150	72	62	54	48	43	39	36			
1		1,670	56	48	42	37	33					
2		1,370	46	40	35	31	27					
3		1.050	36	31	27	24	21					
4		865	29	25	22	19	17					
5		710	24	20	18	16	14					
6		590	20	17	15	13	12					
8		395	13	11	10							
10		280	9	8	7							

SAFE CARRYING CAPACITY OF INSULATED WIRES.

As Given by National Board of Fire Underwriters.

Size. B. & S.	Circular mils.	Carrying capacity in amperes. Rubber covered.	Weatherproof.
	1,000,000	650	1,000
	900,000	600	920
	800,000	550	840
	700,000	500	760
	600,000	450	680
	500,000	390	590
	450,000	360	545
	400,000	330	500
	350,000	300	450
	300,000	270	400
	250,000	240	350
0000	211,600	210	312
000	167.803	177	262
00	133,079	150	220
0	105,534	127	185
1	83,694	107	156
2	66,373	90	131
3	52,634	76	110
4	41,743	65	92
5	33,102	54	77
6	26,250	46	65
8	16,510	33	46
10	10,382	24	32
12	6,530	17	23
14	4,107	12	16
16	2,583	6	8
18	1,624	3	5

The lower limit is specified for rubber-covered wires to prevent gradual deterioration of the rubber from the heat of the wire. The question of drop is not taken into consideration in the table.

COPY OF PAGE 16, EDITION OF 1897, RULES AND REQUIREMENTS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS.

TABLE OF CARRYING CAPACITY OF WIRES.

Below is a table showing the allowable carrying capacity of wires containing ninety-eight per cent. pure copper, which must be followed in placing interior conductors:

RUBBER COVERED WIRES.

B. & S. Gauge.	Amperes.
18	3
16	6
14	12
12	17
10	24
8	33
6	46
5	54
4	65
3	76
2	90
1	107
0	127
00	150
000	177
0000	210

Circular Mils.	Amperes.
200,000	200
300,000	270
400,000	330
500,000	390
600,000	450
700,000	500
800,000	550
900,000	600
1,000,000	650
1,100,000	690
1,200,000	730
1,300,000	770
1,400,000	810
1,500,000	850
1,600,000	890
1,700,000	930
1,800,000	970
1,900,000	1,010
2,000,000	1,050

The low limit is specified for rubber covered wires to prevent gradual deterioration of the high insulations by the heat of the wires, but not from fear of igniting the insulation. The question of drop is not taken into consideration in the above tables.

FEET EXPRESSED IN DECIMAL PARTS OF A MILE.

	Units.	Tens.	Hundreds.	Thousands.
1	.000189	.001893	.01893	.1893
2	.000378	.003787	.03787	.3787
3	.000568	.005681	.05681	.5681
4	.000757	.007574	.07574	.7574
5	.000946	.009468	.09468	.9468
6	.001136	.011362	.11362	
7	.001325	.013255	.13255	
8	.001514	.015148	.15148	
9	.001704	.017042	.17042	

Example: Express 4,925 feet in decimal of a mile.

4,000 feet = .7574
900 feet = .17042
20 feet = .003787
5 feet = .000946

Total.....932553 of a mile.

WIRING TABLES.

DIMENSIONS, RESISTANCES AND SAFE CARRYING CAPACITY OF COPPER WIRES.

B. & S. Gauge No.	Diameter in Mills or Thousandths of an Inch.	Area in Circular Mills.	Ohms per 1,000 Ft.	Lbs. per 1,000 Ft., W. P. Ins.	Safe Amperes. Rubber Covered.	Safe Amperes. Weather-proof.
....	1,000	1,000,000	.01038	3,550	650	1,000
....	894	800,000	.01297	2,880	550	840
....	775	600,000	.0173	2,210	450	680
....	707	500,000	.02076	1,875	390	590
....	632	400,000	.02596	1,530	330	500
....	548	300,000	.0346	1,185	270	400
0000	460	211,600	.04906	750	210	312
000	410	167,805	.06186	600	177	262
00	365	133,079	.07801	500	150	220
0	325	105,592	.0983	400	127	185
1	289	83,694	.1240	300	107	156
2	258	66,373	.1564	250	90	131
3	229	52,633	.1972	200	76	110
4	204	41,742	.2487	160	65	92
5	182	33,102	.3136	140	54	77
6	162	26,250	.3955	110	46	65
8	128	16,509	.6288	75	33	46
10	102	10,381	1.	50	24	32
12	81	6,530	1.590	35	17	23
14	...	4,107	2.591	25	12	16
16	51	2,583	4.019	16	6	8
18	40	1,624	6.391	12	3	5

EQUIVALENTS OF WIRES—B. & S. GAUGE.

0000	2-0	4- 3
000	2-1	4- 4
00	2-2	4- 5
0	2-3	4- 6
1	2-4	4- 7
2	2-5	4- 8
3	2-6	4- 9
4	2-7	4-10
5	2-8	4-11
6	2- 9	4-12
7	2-10	4-13
8	2-11	4-14
9	2-12	4-15
10	2-13	4-16
11	2-14	4-17
12	2-15	4-18
13	2-16	....
14	2-17	....

WIRE TABLES.

COPPER WIRE TABLES.

(Based on the B. A. Unit.)

Gauge. B. & S. Number	Diameter in 1000ths	Sectional Area in Circular Mils	Capacity in Amperes	Ohms per 1000 Feet	Ohms per Mile	Ohms per Pound	Feet per Pound	Feet per Ohm	Pounds per 1000 Feet	Pounds per Ohm
0000	.460	211600.	312.	.04906	.25903	.000077	1.56122	20497.7	640.51	12987.
000	.40964	167805.	262.	.06186	.32664	.00012	1.9687	16255.27	507.95	8333.
00	.3648	133079.	220.	.07801	.41187	.00019	2.4824	12891.37	402.83	5263.
0	.32486	105534.	185.	.09831	.51909	.00031	3.1303	10223.08	319.45	3225.
1	.2893	83694.	156.	.12404	.65490	.00049	3.94714	8107.49	253.34	2041.
2	.25763	66373.	131.	.1563	.8258	.00078	4.97722	6429.58	200.91	1282.
3	.22942	52634.	110.	.19723	1.0414	.00125	6.2765	5098.61	159.32	800.
4	.20431	41743.	92.3	.24869	1.313	.00198	7.9141	4043.6	126.35	505.
5	.18194	33102.	77.6	.31361	1.655	.00314	9.97983	3206.61	100.20	318.
6	.16202	26251.	65.2	.39546	2.088	.00499	12.5847	2542.89	79.462	200.
7	.14428	20817.	54.8	.49871	2.633	.00792	15.8696	2015.51	63.013	126.
8	.12849	16510.	46.1	.6529	3.3	.0125	20.0097	1599.3	49.976	80.
9	.11443	13094.	38.7	.7892	4.1	.0197	25.229	1268.44	39.636	50.
10	.10189	10382.	32.5	.8441	4.4	.0270	31.8212	1055.66	31.426	37.
11	.090742	8234.	27.3	1.254	6.4	.0501	40.1202	797.649	24.924	20.
12	.080808	6530.	23.	1.580	8.3	.079	50.5906	632.555	19.766	12.65
13	.071961	5178.	19.3	1.995	10.4	.127	63.7948	501.63	15.674	7.87
14	.064084	4107.	16.2	2.504	13.2	.200	80.4415	397.822	12.435	5.00
15	.057068	3257.	13.6	3.172	16.7	.320	101.4365	315.482	9.859	3.12
16	.05082	2583.	11.5	4.001	23.	.512	127.12	250.184	7.819	1.95
17	.045257	2048.	9.6	5.04	26.	.811	161.29	198.409	6.199	1.23
18	.040303	1624.	8.1	6.36	33.	1.29	203.374	157.35	4.916	.775
19	.03589	1288.	....	8.25	43.	2.11	256.468	124.777	3.899	.473
20	.031961	1021.	....	10.12	53.	3.27	323.399	98.9533	3.094	.305
21	.028462	810.	....	12.76	68.	5.20	407.815	78.473	2.452	.192
22	.025347	642.	....	16.25	85.	8.35	514.193	62.236	1.945	.119
23	.022571	509.	....	20.30	108.	13.3	648.452	49.3504	1.542	.075
24	.0201	404.	....	25.60	135.	20.9	817.688	39.1365	1.223	.047
25	.0179	320.	....	32.2	170.	33.2	1031.038	31.0381	.9699	.030
26	.01594	254.	....	40.7	214.	52.9	1300.180	24.6131	.7692	.0187
27	.014195	201.	....	51.3	270.	84.2	1639.49	19.5191	.6099	.0118
28	.012641	159.8	....	64.8	343.	134.	2067.364	15.4793	.4837	.0074
29	.011257	126.7	....	81.6	432.	213.	2606.959	12.2854	.3835	.0047
30	.010025	100.5	....	103.	538.	338.	3287.084	9.7355	.3002	.0029
31	.008928	79.7	....	130.	685.	539.	4414.49	7.72143	.2413	.0018
32	.00795	66.	....	164.	865.	856.	5226.915	6.12243	.1913	.0011
33	.00708	50.1	....	206.	1033.	1357.	6590.41	4.85575	.1517	.00076
34	.006304	39.74	....	260.	1389.	2166.	8312.8	3.84966	.1204	.00046
35	.005614	31.5	....	328.	1820.	3521.	10481.77	3.05305	.0956	.00028
36	.005	25.	....	414.	2200.	5469.	13214.16	2.4217	.0757	.00018
37	.004453	19.8	....	523.	2765.	8742.	16659.97	1.92086	.06003	.00011
38	.003965	15.72	....	660.	3486.	13772.	21013.25	1.52292	.04758	.00007
39	.003531	12.47	....	832.	4395.	21896.	26496.237	1.20777	.03755	.00004
40	.003144	9.88	....	1049.	5542.	34823.	33420.63	0.97984	.02992	.00002

POLE LINE DATA.

Showing the distance between poles according to the number of poles used per mile. Also the weight of wire in the suspension between poles, allowing for sag, calculated on weights of standard triple braided line wires.

Number of poles per mile....			30	35	40	45	50	55	60	65	70	75
Distance between poles in feet			176	151	132	117	105	96	88	81	75	70
B. & S. gauge solid.	C. M. capacity stranded.	Weight lbs. per mile.	Weight in Pounds of Wire in Span.									
	1,000,000	19,400	655	562	491	435	390	356	326	300	277	258
	900,000	17,600	597	511	446	393	355	324	295	272	241	235
	800,000	15,800	536	459	400	355	318	290	266	244	226	211
	700,000	14,000	473	405	354	313	280	256	234	215	200	186
	600,000	12,000	405	347	303	268	240	219	201	184	171	159
	500,000	10,000	340	281	253	224	200	133	168	154	148	133
	450,000	9,300	314	269	235	208	186	170	156	150	132	123
	400,000	8,400	284	243	212	188	168	153	140	129	120	111
	350,000	7,100	239	204	178	158	141	129	118	109	101	94
	300,000	6,200	209	179	156	138	124	113	103	95	88	82
	250,000	5,200	175	150	130	115	103	94	86	79	74	69
0000		4,050	136	117	102	89	81	74	68			
000		3,320	112	96	84	74	67	61	56			
00		2,650	89	77	67	59	53	48	44			
0		2,150	72	62	54	48	43	39	36			
1		1,670	56	48	42	37	33					
2		1,370	46	40	35	31	27					
3		1,050	36	31	27	24	21					
4		865	29	25	22	19	17					
5		710	24	20	18	16	14					
6		590	20	17	15	13	12					
8		395	13	11	10							
10		280	9	8	7							

WIRING TABLES.

TABLE SHOWING DIFFERENCE BETWEEN WIRE GAUGES IN DECIMAL PARTS OF AN INCH.

No. of Wire Gauge	American or Brown & Sharpe	Birmingham or Stubs	Washburn & Moen Mfg. Co., Worcester, Mass.	Trenton Iron Co., Trenton, N. J.	New British	Old English from Brass Mfr's. List.	No. of Wire
000000	.....	....	.46	.....	....	....	000000
00000	.....	....	.43	.45	....	....	00000
0000	.46	.454	.393	.4	.4	....	0000
000	.40964	.425	.362	.36	.372	....	000
00	.3648	.38	.331	.33	.348	....	00
0	.32495	.34	.307	.305	.324	....	0
1	.2893	.3	.283	.285	.3	....	1
2	.25763	.284	.263	.265	.276	....	2
3	.22942	.259	.244	.245	.252	....	3
4	.20431	.238	.225	.225	.232	....	4
5	.18194	.22	.207	.205	.212	....	5
6	.16202	.203	.192	.19	.192	....	6
7	.14428	.18	.177	.175	.176	....	7
8	.12849	.165	.162	.16	.16	....	8
9	.11443	.148	.148	.145	.144	....	9
10	.10189	.134	.135	.13	.128	....	10
11	.090742	.12	.12	.1175	.116	....	11
12	.080808	.109	.105	.105	.104	....	12
13	.071961	.095	.092	.0925	.092	....	13
14	.064084	.083	.08	.08	.08	.083	14
15	.057068	.072	.072	.07	.072	.072	15
16	.05082	.065	.063	.061	.064	.065	16
17	.045257	.058	.054	.0525	.056	.058	17
18	.040303	.049	.047	.045	.048	.049	18
19	.03589	.042	.041	.039	.04	.04	19
20	.031961	.035	.035	.034	.036	.035	20
21	.028462	.032	.032	.03	.032	.0315	21
22	.025347	.028	.028	.27	.028	.0295	22
23	.022571	.025	.025	.024	.024	.027	23
24	.0201	.022	.023	.0215	.022	.025	24
25	.0179	.02	.02	.019	.02	.023	25
26	.01594	.018	.018	.018	.018	.0205	26
27	.014195	.016	.017	.017	.0164	.01875	27
28	.012641	.014	.016	.016	.0148	.0165	28
29	.011257	.013	.015	.015	.0136	.0155	29
30	.010025	.012	.014	.014	.0124	.01375	30
31	.008928	.01	.0135	.013	.0116	.01225	31
32	.00795	.009	.013	.012	.0108	.01125	32
33	.00708	.008	.011	.011	.01	.01025	33
34	.006304	.007	.01	.01	.0092	.0095	34
35	.005614	.005	.0095	.009	.0084	.009	35
36	.005	.004	.009	.008	.0076	.0075	36
37	.004453	....	.0085	.00725	.0068	.0065	37
38	.003965	....	.008	.0065	.006	.00575	38
39	.003531	....	.0075	.00575	.0052	.005	39
40	.003144	....	.007	.005	.0048	.0045	40

EQUIVALENTS OF WIRES, BROWN & SHARPE GAUGE.

No.	No.	No.	No.	No.	No.
0000	2— 0	4— 3	8— 6	16— 9	32—12	64—15
000	2— 1	4— 4	8— 7	16—10	32—13	64—16
00	2— 2	4— 5	8— 8	16—11	32—14	64—17
0	2— 3	4— 6	8— 9	16—12	32—15	64—18
1	2— 4	4— 7	8—10	16—13	32—16	64—19
2	2— 5	4— 8	8—11	16—14	32—17	64—20
3	2— 6	4— 9	8—12	16—15	32—18	64—21
4	2— 7	4—10	8—13	16—16	32—19	64—22
5	2— 8	4—11	8—14	16—17	32—20	64—23
6	2— 9	4—12	8—15	16—18	32—21	64—24
7	2—10	4—13	8—16	16—19	32—22	64—25
8	2—11	4—14	8—17	16—20	32—23	64—26
9	2—12	4—15	8—18	16—21	32—24	64—27
10	2—13	4—16	8—19	16—22	32—25	64—28
11	2—14	4—17	8—20	16—23	32—26	64—29
12	2—15	4—18	8—21	16—24	32—27	64—30
13	2—16	4—19	8—22	16—25	32—28	.....
14	2—17	4—20	8—23	16—26	32—29	.....
15	2—18	4—21	8—24	16—27	32—30	.....
16	2—19	4—22	8—25	16—28	.....	.....
17	2—20	4—23	8—26	16—29	.....	.....
18	2—21	4—24	8—27	16—30	.....	.....
19	2—22	4—25	8—28	.....	.....	.....
20	2—23	4—26	8—29	.....	.....	.....
21	2—24	4—27	8—30	.....	.....	.....
..	.....	.....	.....	.....	.....	.....

THE METRIC SYSTEM.

WEIGHTS.

Metric Denominations and Values. Name.	No. Grams.	Equivalents in Denominations in Use. Weight of what quantity of water at max. density.
Millier or tonneau	=1,000,000=	1 cubic meter.
Quintal	= 100,000=	1 hectoliter.
Myriagram	= 10,000=	10 liters.
Kilogram or Kilo	= 1,000=	1 liter.
Hectogram	= 100=	1 deciliter.
Dekagram	= 10=	10 cu. centimeters.
Gram	= 1=	1 cu. centimeter.
Decigram	= .1=	.1 cu. centimeter.
Centigram	= .01=	10 cu. millimeters.
Milligram	= .001=	1 cu. millimeter.

Name.	No. Grams.	Avoirdupois Weight.
Millier or tonneau	=1,000,000=	2,204.6 pounds.
Quintal	= 100,000=	220.46 pounds.
Myriagram	= 10,000=	22.046 pounds.
Kilogram or Kilo	= 1,000=	2.2046 pounds.
Hectogram	= 100=	3.5274 ounces.
Dekagram	= 10=	0.3527 ounce.
Gram	= 1=	15.432 grains.
Decigram	= .1=	1.5432 grains.
Centigram	= .01=	0.1543 grain.
Milligram	= .001=	0.0154 grain.

MEASURES OF LENGTH.

Myriameter	=10,000 meters =	6.2137 miles.	
Kilometer	= 1,000 meters =	0.62137 m. or 3,280 ft. 10 in.	
Hectometer	= 100 meters =	328 ft. and 1 inch.	
Dekameter	= 10 meters =	393.7 inches.	
Meter	= 1 meter =	39.37	inches.
Decimeter	= .1 of a meter=	3.937	inches.
Centimeter	= .01 of a meter=	0.3937	inch.
Millimeter	=.001 of a meter=	0.0394	inch.

MEASURES OF SURFACE.

Hectare	=10,000 square meters=	2.471	acres.
Are	= 100 square meters=	119.6	sq. yards.
Centare	=1 square meter=	1,550	square inches.

MEASURES OF CAPACITY.

Name.	No. Liters.	Cubic Measure.	Dry Measure.
Kiloliter	=1,000=	1 cubic meter	=1.308 cu. yds.
Hectoliter	= 100=	.1 cubic meter	=2 bu. 3.35 pks.
Decaliter	= 10=	10 cu. decimeters	=9.08 quarts.
Liter	= 1=	1 cu. decimeter	=0.908 quart.
Deciliter	= .1=	.1 cu. decimeter	=6.1022 cu. ins.
Cent'liter	= .01=	10 cu. centimeters	=0.6102 cu. in.
Milliliter	= .001=	1 cu. centimeter	=0.061 cu. in.

Name.	No. Liters.	Cubic Measure.	Wine Measure.
Kiloliter	=1,000=	1 cubic meter	=264.17 gals.
Hectoliter	= 100=	.1 cubic meter	=26.417 gals.
Decaliter	= 10=	10 cu. decimeters.	=2.6417 gals.
Liter	= 1=	1 cu. decimeter	=1.0567 quarts.
Deciliter	= .1=	.1 cu. decimeter	=0.845 gill.
Cent'liter	= .01=	10 cu. centimeters	=0.388 fluid oz.
Milliliter	= .001=	1 cu. centimeter	=0.27 fluid oz.

USEFUL TABLES.

We publish these tables, obtaining them from good authorities, but do not hold ourselves liable for errors in compilation or misprint.

ELECTRICAL UNITS.

The electrical units are derived from the following mechanical units of the metric system:

Centimeter. Unit of Length—One thousand millionth part of a quadrant of the earth's surface.

Gramme. Unit of Weight—Weight of a cubic centimeter of water at a temperature of 4 degrees centigrade.

Second. Unit of Time—The time of one swing of a pendulum making 86,400 swings in a solar day.

The unit of area is the square centimeter. The unit of volume is the cubic centimeter.

THE ELECTRICAL UNITS ARE AS FOLLOWS:

Volt. The Unit of Electro-Motive Force—Force required to send one ampere of current through one ohm of resistance.

Ohm. Unit of Resistance—The resistance offered to the passage of one ampere when impelled by one volt.

Megohm. 1,000 ohms.

Ampere. Unit of Current—The current which one volt can send through a resistance of one ohm.

Coulomb. Unit of Quantity—Quantity of current which, impelled by one volt, would pass through one ohm in one second.

Farad. Unit of Capacity—The capacity of a conductor or condenser which will hold one coulomb under the pressure of one volt.

Microfarad (Mfd.). One millionth of a farad.

Watt. Unit of Power—The power to do work when one ampere passes through one ohm under pressure of one volt. (746 watts equal one horse-power.)

Joule. Unit of Work—The work done by one watt in one second.

OHMS LAW.

As has been stated, the greater the electro-motive force, the greater the results.

***The current strength is directly proportioned to the volts and indirectly proportional to the ohms. This is Ohms Law, and expresses the relation which the three units bear to each other.

1st. The amperes are equal to the volts divided by the ohms.

2nd. Also the volts are equal to the amperes multiplied by the ohms. And,

3rd. The ohms are equal to the volts divided by the amperes.

The above are three ways of stating Ohms Law.

If any two factors are known the third can be found.

Example: If there is a circuit on which 120 volts is applied, and the resistance is known to be 12 ohms, what will be the current? Answer, 10 amperes.

Volts=Electro-motive force (E. M. F.). Ohms=Resistance (R.). Amperes=Current (C.).

Therefore, by Ohms Law $C=\frac{E.\ M.\ F.}{R.}$ E. M. F.=C.×R. $R.=\frac{E.\ M.\ F.}{C.}$

Substituting $C.=\frac{120}{12}=C.=10$ amperes.

MIL.

The "mil," whose expressed value is $\frac{\text{one}}{\text{one-thousandth}}$ (.001) of an inch, is the practical basis for determining the diameters and thereby the areas of all wires used as electric conductors. The diameter being given, the area is obtained by the well-known rule, "the area of a circle, in circular units, is equal to the square of its diameter," hence, the square of the diameter of a wire expressed in mils equals the area of its cross section. $d^2=A.$ which area is expressed in circular mils or CM; hence $D^2=CM.$

USEFUL TABLES.

ELECTRICAL UNITS AND MECHANICAL EQUIVALENTS.

ALTERNATING CURRENT.

At Voltage of	1000	2000	3000	4000	5000	
1 Horse Power =	3/5	3/10	1/5	3/20	1/8	Ampere.
1 Ampere =	2/3	3 1/3	5	6 2/3	8 1/3	Horse Power.
1 Horse Power =		11 1/2	11	10 1/2	10	16 C. P. Lamps.
1 Ampere =		40	60	80	100	16 C. P. Lamps.

AMPERES PER HORSE POWER.

The following table shows number of amperes required per horse power when the percentage of efficiency of the motor is known.

Efficiency of Motor.	75 Per Cent.	80 Per Cent.	85 Per Cent.	90 Per Cent.
At 110 Volts,	9 Amp.	8.4 Amp.	7.9 Amp.	7.5 Amp.
At 220 Volts,	4.5 Amp.	4.2 Amp.	3.95 Amp.	3.75 Amp.
At 500 Volts,	1.98 Amp.	1.86 Amp.	1.75 Amp.	1.66 Amp.

TO DETERMINE THE SIZE OF COPPER WIRE FOR ANY GIVEN SERVICE.

Let C. M. = Cir. Mils.
Let D. = Distance.
Let C. = Current.
Let L. = Loss in Volts.
21.5 is a "Constant" or figure always used.

$$\text{Then } \frac{C. \times D. \times 21.5}{L.} = \text{Cir. Mils.}$$

Example.—It is required that 100 amperes be carried 350 feet on a 110 volt circuit, with a loss of 2 per cent in voltage. What is the Cir. Mils required?

Example.—First, ascertain the loss in volts, or 2 per cent of 110=2.2 volts.

$$\frac{100 \times 350 \times 21.5}{2.2} = 337.500 \text{ Cir. Mils. or two—No. 000 Wires.}$$

Where a wiring table is not at hand and it is desired to ascertain the weight of any bare copper conductor, it can be roughly determined in accordance with the following:

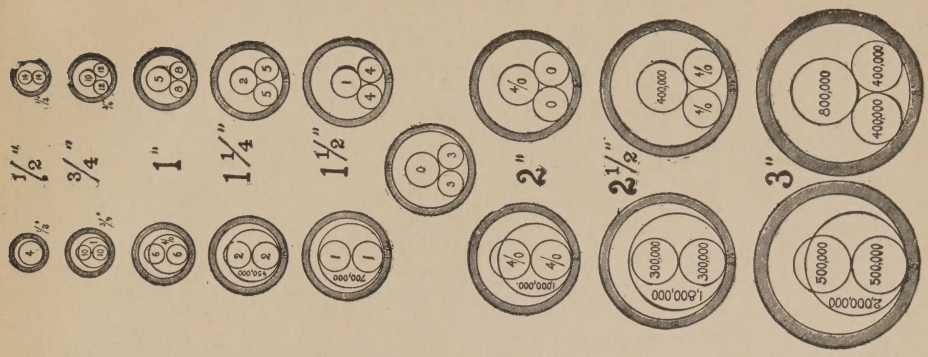
1000 feet of wire having an area of 1000 circular mils weighs approximately three pounds, and the weight of any bare conductor can, therefore, be determined by multiplying its area in circular mils by .003.

DECIMAL EQUIVALENTS.

Of eighths, sixteenths, thirty-seconds and sixty-fourths of an inch.

Fractions of an Inch.	Decimals of an Inch.	Fractions of an Inch.	Decimals of an Inch.	Fractions of an Inch.	Decimals of an Inch.	Fractions of an Inch.	Decimals of an Inch.
1/64 =	.015625	17/64 =	.265625	33/64 =	.515625	49/64 =	.765625
1/32 =	.03125	9/32 =	.28125	17/32 =	.53125	25/32 =	.78125
3/64 =	.046875	19/64 =	.296875	35/64 =	.546875	51/64 =	.796875
1/16 =	.0625	5/16 =	.3125	9/16 =	.5625	13/16 =	.8125
5/64 =	.078125	21/64 =	.328125	37/64 =	.578125	53/64 =	.828125
3/32 =	.09375	11/32 =	.34375	19/32 =	.59375	27/32 =	.84375
7/64 =	.109375	23/64 =	.359375	39/64 =	.609375	55/64 =	.859375
1/8 =	.125	3/8 =	.375	5/8 =	.625	7/8 =	.875
9/64 =	.140625	25/64 =	.390625	41/64 =	.640625	57/64 =	.890625
5/32 =	.15625	13/32 =	.40625	21/32 =	.65625	29/32 =	.90625
11/64 =	.171875	27/64 =	.421895	43/64 =	.671875	59/64 =	.921875
3/16 =	.1875	7/16 =	.4375	11/16 =	.6875	15/16 =	.9375
13/64 =	.203125	29/64 =	.453125	45/64 =	.703125	61/64 =	.953125
7/32 =	.21875	15/32 =	.46875	23/32 =	.71875	31/32 =	.96875
15/64 =	.234375	31/64 =	.484375	47/64 =	.734375	63/64 =	.984375
1/4 =	.25	1/2 =	.5	3/4 =	.75		

CONDUIT AND WIRE TABLES.



Relative sizes of Loricated or Galvaduct Conduits, T. & B. Bushings and Double Braided Wire.

Wire Data.

No. B. & S. Gauge	Diameters in 32nds Solid Bare	Strand Bare	Insulated W. P.	R. C.	Area Circular Mils	Capacity Amperes W. P.	R. C.	Pounds per 1000 Feet Bare	Ins.	Ohms per 1000 Feet.
	32	37	48	51	1,000,000	1000	650	3110		.0101
	30	35	45	49	900,000	920	600	2800		.0112
	29	33	43	47	800,000	840	550	2470		.0126
	27	31	41	44	700,000	760	500	2170		.0144
	25	28	39	40	600,000	680	450	1860		.0167
	23	26	35	38	500,000	590	390	1550		.0201
	20	23	34	34	400,000	500	330	1240		.0252
	18	20	30	31	300,000	400	270	932		.0336
0000	15	18	24	26	211,600	312	210	641	815	.0490
000	13	16	22	24	167,800	262	177	508	643	.0613
00	12	14	18	22	133,100	220	150	403	528	.0780
0	10	12	17	21	105,600	185	127	320	421	.0983
1	9	11	16	19	83,690	156	107	253	329	.124
2	8	10	15	17	66,370	131	90	201	296	.156
3	7	10	14	16	52,630	110	76	159	265	.197
4	7		12	15	41,740	92	65	126	228	.249
5	6		11	14	33,100	77	54	100	196	.313
6	5		10	13	26,250	65	46	79	166	.395
7	5				20,820			63	118	.498
8	4		9	12	16,510	46	33	50	116	.628
9	4				13,090			40	97	.792
10	3		8	9	10,380	32	24	31	80	.999
12	3		7	8	6,530	23	17	20	48	1.59
14	2		6	7	4,106	16	12	12	38	2.53

DATA ON SOLID WIRES LARGER THAN 4/0.

No. B. & S. Gauge.	Dia. Mils.	Circular Mils.	Feet per Pound.	Pounds per Foot.	Ohms per Mile.
5/0	515	265225	1.29	.80	.206
6/0	575	330625	1.00	1.00	.165
7/0	640	409600	.81	1.24	.133
8/0	710	504100	.66	1.53	.108
9/0	785	616225	.54	1.86	.089
10/0	865	748225	.44	2.25	.073
11/0	950	902500	.37	2.73	.060
12/0	1040	1081600	.21	3.27	.050

C=Current in Amperes
E=Voltage
CM=Circular Mils
R=Resistance in Ohms
W=Energy in Watts
HP=Horse Power
K=Efficiency of Machine

$$\text{Loss in } E = \frac{2}{CM} \times C \times \text{feet}$$

$$C = \frac{E}{R} \qquad E = C\,R$$

$$R = \frac{E}{C} \qquad C\,E = W$$

$$W = \frac{E^2}{R} \qquad W = 746 \times H.P.$$

$$E = \frac{746 \times H.P.}{C \times K} \qquad C = \frac{746 \times H.P.}{E \times K}$$

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